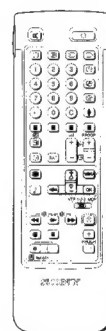
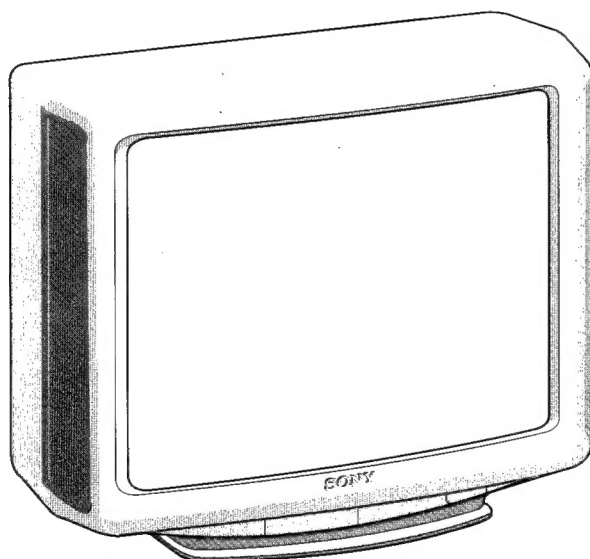


# SERVICE MANUAL

# AE-3 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-S2951A	RM-831	Italian	SCC-J26C-A	KV-S2951K	RM-831	OIRT	SCC-J29C-A
KV-S2953B	RM-831	French	SCC-J27C-A	KV-S2952U	RM-831	UK	SCC-J24C-A
KV-S2951D	RM-831	AEP	SCC-J23C-A				
KV-S2953E	RM-831	Spanish	SCC-J28C-A				



TRINITRON® COLOR TV  
**SONY®**

ITEM	MODEL	Television System	Channel Coverage	Colour System
Italian	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 D/K VHF: R01-R12 UHF: R21-R69	SECAM, PAL NTSC 3.58 (video input only) NTSC4.43 (video input only)	
French	L, B/G/H, I	L VHF: F2-F10 UHF: F21-F69 Cable TV: B-Q B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 I B21-69	SECAM, PAL NTSC 3.58 (video input only) NTSC4.43 (video input only)	
AEP	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: B-Q UHF: S21-S41	SECAM, PAL NTSC 3.58 (video input only) NTSC4.43 (video input only)	
Spanish	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 SECAM D/K VHF: R01-R12 UHF: R21-R60	SECAM, PAL NTSC 3.58 (video input only) NTSC4.43 (video input only)	
OIRT	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: B-Q UHF: S21-S41	SECAM, PAL NTSC 3.58 (video input only) NTSC4.43 (video input only)	
UK	I	UHF: 21-69	SECAM, PAL NTSC 3.58 (video input only) NTSC4.43 (video input only)	

MODEL	Italian	French	AEP	Spanish	OIRT	UK
Power Consumption	138W	156Wh	154W	156Wh	154W	212W

## SPECIFICATIONS

Picture Tube Super Trinitron Wide  
Approx. 72 cm (29 inches)  
(Approx. 68 cm picture measured diagonally)  
110° -deflection

### Rear/Front Terminals

#### [REAR]

- ② 21-pin Euro connector (CENELEC standard)
  - Input for audio and video signals
  - Input for RGB
  - Outputs of TV video and audio signals
- ②/② 21-pin Euro connector
  - Input for audio and video signals
  - Input for S video
  - Outputs of TV video and audio signals (selectable)
- ②/② 21-pin Euro connector
  - Input for audio and video signals
  - Input for S video
  - Outputs of TV video and audio signals (monitor out)
- ② 2, ② 4 S video inputs - 4 pin DIN
- ② Audio inputs (L, R) - phono jacks
- ② S video output - 4 pin DIN

- ② Audio outputs - phono jacks
- ② Audio outputs (variable) - phono jacks
- External speaker terminals : 2-pin DIN (5)

#### [FRONT]

- ② 3 Video input - phono jack
- ② 3 Audio inputs - phono jacks
- ② S video input - 4-pin DIN
- Ω Headphone jack : stereo minijack

- Sound output
  - 2x30W (music power)
  - 1x30W Centre
  - 2x15W Surround
- Dimensions Approx. 702x558x540 mm
- Weight Approx. 53 kg
- Supplied accessories
  - Remote Commander RM-831 (1)
  - Scroll Commander RM-60 (1)
  - Batteries R6 (2)
  - Surround speaker (2)
  - Surround Loudspeaker 160 (2)

## Other features

TOP-text (KV-S2951D)  
 FASTEXT, NICAM (KV-S2953B/S2953E/S2952U)  
 DNR (Digital Noise Reduction)  
 Scroll Commander  
 Dolby Digital Surround System  
 100Hz Digital Plus  
 Graphic Equalizer  
 PIP (picture in picture)  
 Multi-PIP


## [RM-831]

Remote control system infrared control  
 Power requirements 1.5V dc  
 1 battery IEC designation  
 R6 (size AA)  
 Dimensions Approx. 65x225x21 mm (w/h/d)  
 Weight Approx. 157g (Not including battery)

**Design and specifications are subject to change without notice.**

Model name Item	KV-S2951A	KV-S2953B	KV-S2951D	KV-S2953E	KV-S2951K	KV-S2952U
Pal Comb	ON	ON	ON	ON	ON	ON
PIP	ON	ON	ON	ON	ON	ON
RGB Priority	ON	ON	OFF	OFF	OFF	OFF
60 Programs	OFF	OFF	OFF	OFF	OFF	OFF
PAL PLUS	ON	ON	ON	ON	ON	ON
DOLBY	ON	ON	ON	ON	ON	ON
DSP	OFF	OFF	OFF	OFF	OFF	OFF
EQUALIZER	ON	ON	ON	ON	ON	ON
SUB TUNER	OFF	OFF	OFF	OFF	OFF	OFF
PAP	OFF	OFF	OFF	OFF	OFF	OFF
MLT.PIP	ON	ON	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON
Front 3	ON	ON	ON	ON	ON	ON
Scart 4	ON	ON	ON	ON	ON	ON
DYN. CONV.	OFF	OFF	OFF	OFF	OFF	OFF
PIC. ROT.	ON	ON	ON	ON	ON	ON
Language Preset	Italian	French	German	Spanish	OIRT	English

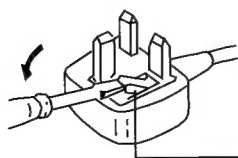
**WARNING ( KV-S2952U only )**

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the  mark.






IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME. IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED.

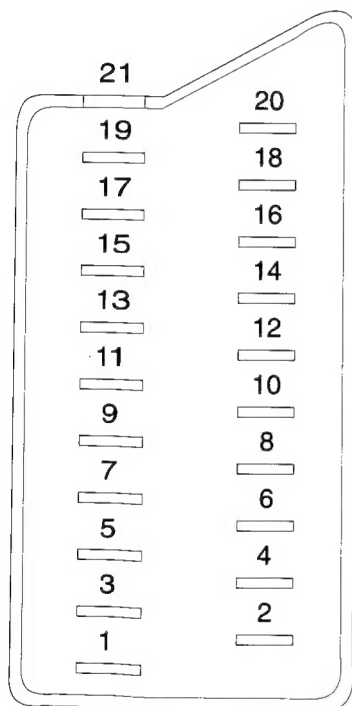
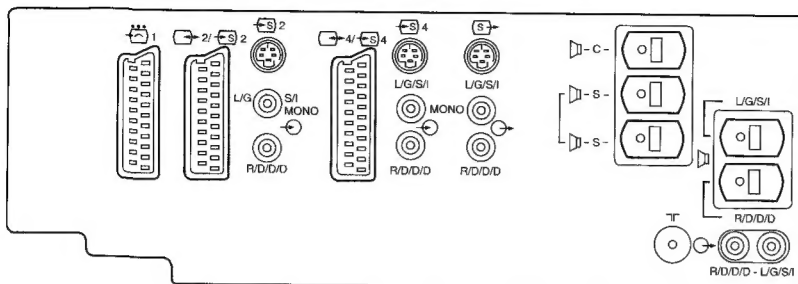
THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.

When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.



How to replace the fuse.  
 Open the fuse compartment with the screwdriver blade and replace the fuse.

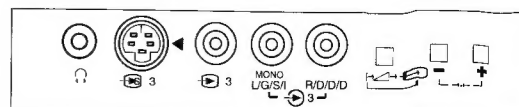
21 pin connector (  1,  2/  2,  4/  4 )



Pin No		Signal	Signal level
1	○	Audio output B (right)	Standard level: 0.5Vrms Output impedance: less than 1kohm*
2	○	Audio input B (right)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
3	○	Audio output A (left)	Standard level: 0.5Vrms Output impedance: less than 1kohm*
4	○	Ground (audio)	
5	○	Ground (blue)	
6	○	Audio input A (left)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
7	○	Blue input	0.7V±3dB, 75ohms, positive
8	○	Function select (AV control)	High state (9.5—12V): Part mode Low state (0—2V): TV mode Input impedance: More than 10kohms Input capacitance: Less than 2nF
9	○	Ground (green)	
10	○	Open	
11	○	Green	Green signal: 0.7V±3dB, 75ohms, positive
12	○	Open	
13	○	Ground (red)	
14	●	Ground (blanking)	
15	○	Red input	0.7V±3dB, 75ohms, positive
	—	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	○	Blanking input (Ys signal)	High state (1—3V) Low state (0—0.4V) Input impedance: 75ohms
17	○	Ground (video output)	
18	○	Ground (video input)	
19	○	Video output	1V±3dB, 75ohms, positive Sync: 0.3V(-3, +10dB)
20	○	Video input	1V±3dB, 75ohms, positive Sync: 0.3V(-3, +10dB)
	—	Video Input/Y (S signal)	1V±3dB, 75ohms, positive Sync: 0.3V(-3, +10dB)
21	○	Common ground (plug, shield)	

○ Connected    ● Not Connected (open)    \* at 20Hz - 20kHz

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm , positive Sync. 0.3V -3/+10 dB
4	C (S signal) input	0.3V ± 3dB 75 ohm , positive Sync.





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**CAUTION**


SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

**WARNING !!**

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

**SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.


**ATTENTION**

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

**ATTENTION !!**

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

**ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!**

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDiqué DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

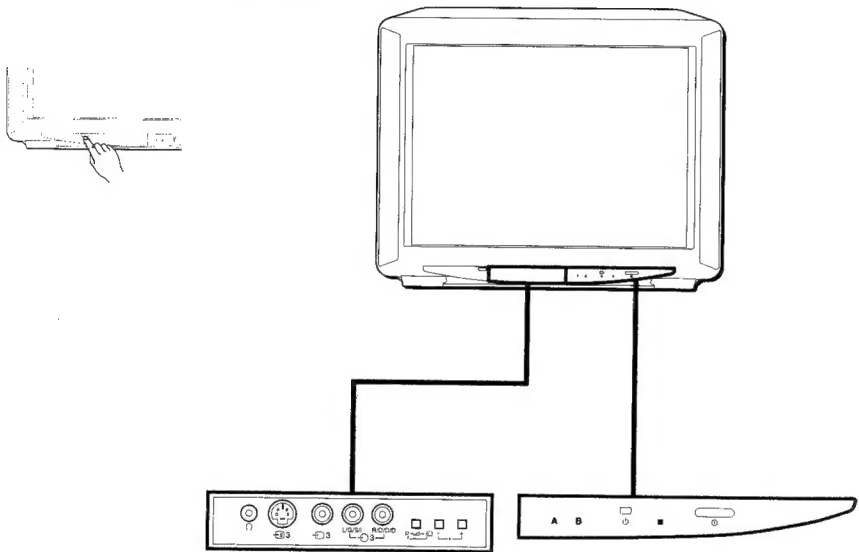
Overview

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

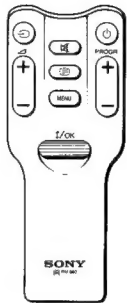
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set - front

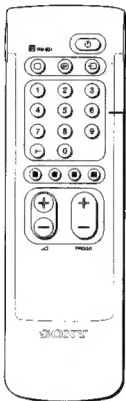


Symbol	Name	Refer to page
⏻	Main power switch	38, 45
⏻	Standby indicator	45
A-CD-B	Stereo A/B mode indicators	47
🎧	Headphones jack	55
🔌 3, 🔌 3, 🔌 3	Input jacks (S video/video/audio)	55
P → 🔌 → 🔌	Function selector (Programme/volume/input)	45
-/+	Adjustment buttons for function selector	45

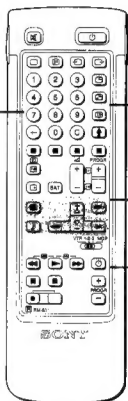
Scroll Commander RM-860



Remote Commander RM-831



Simple side



Full-Function side

TV/Teletext operation

PIP operation

Menu operation

Video operation

Note  
The SAT button does not operate with this TV.

TV/Teletext operation

Symbol	Name	Refer to Page
🔌	Muting on/off button	46
⏻	Standby button	45
⏻	TV power on/TV mode selector button	45
📺	Teletext button	46
📺	Input mode selector	46
📺	Output mode selector	56
1,2,3,4,5,6,7,8,9 and 0	Number buttons	45
-/-	Double-digit entering button	45
C	Direct channel entering button	44
△ +/-	Volume control button	45
PROGR +/-	Programme selectors	45
📺	Teletext page access buttons	52
📺	Picture adjustment button	47
📺	Sound adjustment button	47
📺	On-screen display button	46
📺	Teletext hold button	52
📺	Time display button	46
📺	Fastext buttons	52

PIP (Picture-in-picture) operation

Symbol	Name	Refer to Page
📺	PIP on / off button	50
📺	PIP source selector	50
📺	Swap button	50
📺	PIP position changing button	50

Menu operation

Symbol	Name	Refer to Page
MENU	Menu on / off button	38
△+/-	Select buttons	38
OK	OK (confirming) button	38
←	Back button	38
↑ / OK	Scroll Commander: Roller to select/confirm menu functions	38

Video operation

Symbol	Name	Refer to Page
VTR 1/2/3	Video equipment selector	57
MDP		
⏮ ⏪ ⏩ ⏭	Video equipment operation buttons	57
📺		
PROGR +/-		

# Getting Started

## Step 1 – Connection

### 1 Connect the speakers

#### Notes:

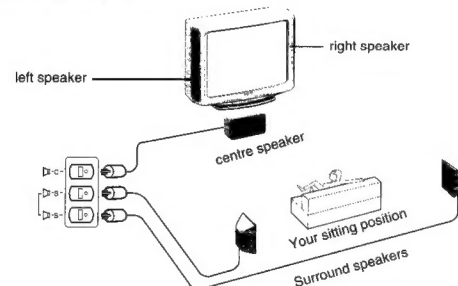
• Connect the speakers using the leads provided making sure to observe the following polarity:  
The striped lead is (+) and should be connected to the red terminal on the speaker.  
The black lead is (–) and should be connected to the black terminal on the speaker.

Dolby (\*) Pro Logic Surround requires normally 5 speakers, whose functions are as follows:  
**Centre speaker:** to anchor the stable sound image, like dialogue, to the TV screen.  
**Left and Right front speakers:** for the normal two-channel stereo broadcasts.  
**Surround speakers:** for the special effects created by the surround channel.

To obtain the full benefit of your Dolby Pro Logic Surround TV, the speakers should be positioned as shown below:

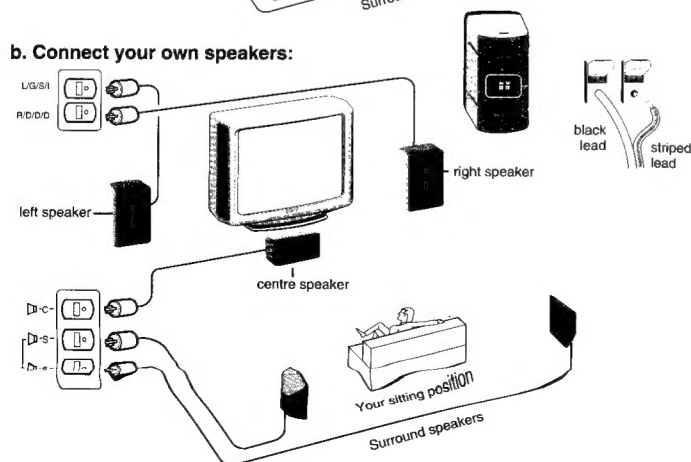
**Before switching on:** connect the speakers to the TV set.

#### a. Connect the speakers provided only:

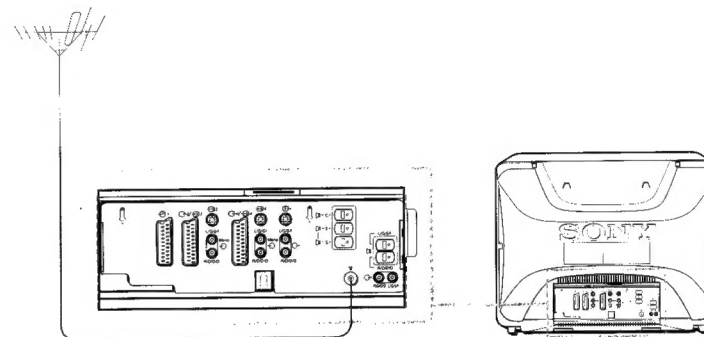


#### b. Connect your own speakers:

**Note:**  
If you prefer to use your own speakers, make sure they are at least 8 Ω impedance and are magnetically shielded otherwise picture distortion may occur.



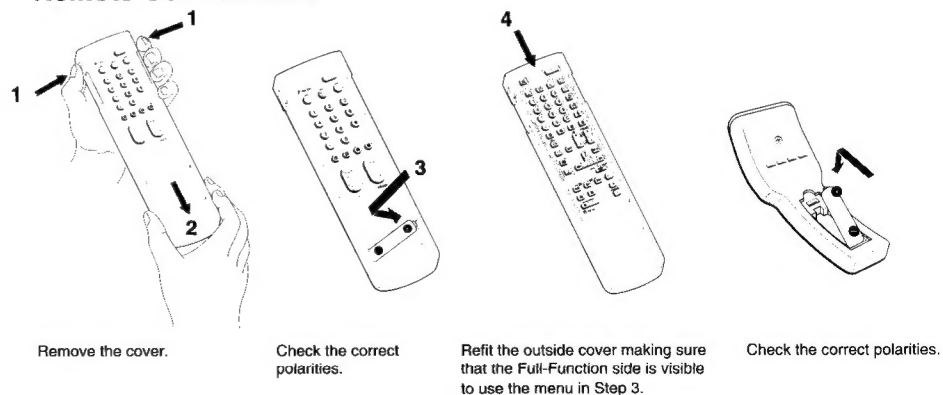
### 2 Connect the aerial



Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the T<sup>1</sup> socket at the rear of the TV. Make sure to use an aerial cable corresponding to the relevant regulations.

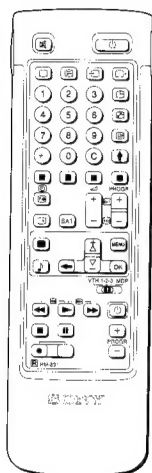
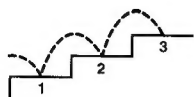
## Step 2 – Preparation

### Insert the batteries into the Remote Commanders



(\*) Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY, the double-D symbol and «PRO LOGIC» are trademarks of Dolby Laboratories Licensing Corporation.

## Step 3 Tuning in to TV Stations



Once you have set up the TV, you can choose the language of the menu. Then you should preset the channels (up to 100 channels) by choosing either the automatic or manual method.

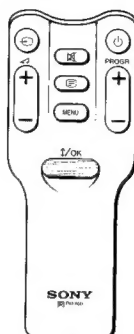
The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.

### Before you begin

- Check that the Full-Function side of the Remote Commander is visible.
- Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.

### Easy Menu operation using the Scroll Commander

In addition to our double-sided Remote Commander, your TV set is supplied with an extra Remote Commander. The »Scroll Commander« works with a roller for convenient, fast-access operation of the menu functions. Move the roller upwards to move the cursor upwards, move the roller downwards to move the cursor downwards, press the roller to confirm a selection. The other buttons on this commander have the same functions as the respective buttons on the double-sided Remote Commander.



## 1 Choose a language

- Depress on the TV. The TV will switch on. If the standby indicator on the TV is lit, press or a number button on the Remote Commander.
- Press the MENU button. The LANGUAGE menu appears. (See Fig. 1)
- Select the language you want with  $\Delta$  or  $\nabla$  and press OK.

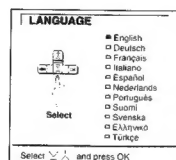


Fig. 1

## 2 Display the Menu

Press the MENU button twice. The main menu appears. (See Fig. 2) Using  $\Delta$  or  $\nabla$  select the symbol and press OK. Now, choose one of the methods described overleaf:

»Preset Channels Automatically«  
or  
»Preset Channels Manually«.

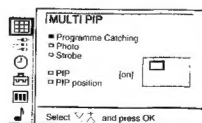


Fig. 2

To go back to main menu:  
Keep pressing  $\leftarrow$ .

To go back to the normal TV picture:  
Press MENU. Normal TV picture will be restored after one minute if menu functions are not selected.

Note on the Demo function:  
If you choose Demo in the Installation menu, you can see a demonstration of the menu functions. Press MENU to stop the function.

With this method, you can preset all receivable channels at once.

To stop automatic channel presetting:  
Press  $\leftarrow$  on the Remote Commander.

Notes:  
• After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see »Displaying the Programme Table« on page 46.

• You can sort the programme positions to have them appear on screen in the order you like. For details, see »Sorting Programme Positions« on page 41.

Programme names are automatically taken from Teletext if available. If not, please refer to page 43 »Captioning a Station name« for more information.

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to various video input sources.

If you have made a mistake:  
Press  $\leftarrow$  to go back to the previous position.  
To go back to main menu:  
Keep pressing  $\leftarrow$ .  
To go back to the normal TV picture:  
Press MENU.

## 3 Preset channels automatically

- Select the symbol for »Preset« with  $\Delta$  or  $\nabla$  and press OK. The PRESET menu appears. (See Fig. 3.)
- Select »Auto Programme« with  $\Delta$  or  $\nabla$  and press OK. The AUTO PROGRAMME menu appears. (See Fig. 4.)
- Press OK. Select if necessary the TV broadcast system (B/G for Western European or D/K for Eastern European countries) with  $\Delta$  or  $\nabla$  and press OK. The first element of the »PROG« number will be highlighted.
- Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with  $\Delta$  or  $\nabla$  or the number buttons (e.g. For »04«, select »0« here) and press OK. The second element of »PROG« will be highlighted.
- Select the second element of the double-digit number with  $\Delta$  or  $\nabla$  or the number buttons (e.g. For »04«, select »4« here) (See Fig. 5.) and press OK.
- Select »C« or »S« with  $\Delta$  or  $\nabla$  and press OK. The automatic channel presetting starts.

When presetting is finished, the preset menu reappears. All available channels are now stored on successive number buttons. Press MENU to restore normal TV picture.

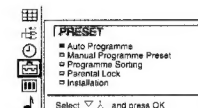


Fig. 3

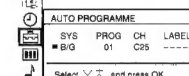


Fig. 4

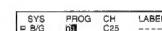


Fig. 5

## 3 Preset channels manually

- Select the symbol for »Preset« with  $\Delta$  or  $\nabla$  and press OK. The PRESET menu appears. (See Fig. 6.)
- Select »Manual Programme Preset« with  $\Delta$  or  $\nabla$  and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 7.)

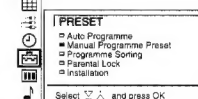


Fig. 6

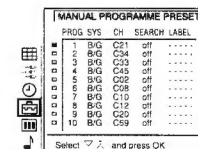


Fig. 7

**To tune in a channel by frequency:**  
After selecting F in step 6, enter three digits using the number buttons. Press OK.

- 3 Using  $\Delta$  or  $\nabla$ -, select the programme position (number button) to which you want to preset a channel, and press OK.
- 4 Select, if necessary the TV broadcast system or a video input source (EXT) with  $\Delta$  or  $\nabla$ -.  
5 Then press OK. The CH position will be highlighted. (See Fig. 8.)
- 6 Using  $\Delta$  or  $\nabla$ -, select C (to preset a regular channel), S (cable channel) or F (to tune in by frequency) and press OK. The first element of the «CH» number will be highlighted. If you have selected EXT in step 5, select the video input source with  $\Delta$  or  $\nabla$ -. (See Fig. 9.)

There are two ways to preset channels. If you know the channel number, go to step »7-Manual«.

or

if you don't know the channel number, go to step »7- Search«.

#### 7 Manual

- a Select the first element of the «CH» number with  $\Delta$  or  $\nabla$ - or the number buttons and press OK. The second element of the «CH» number will be highlighted.
- b Select the second element of the number with  $\Delta$  or  $\nabla$ - or the number buttons. The selected number appears. (See Fig. 10.)
- c Press OK. The «SEARCH» position is highlighted and the selected channel is now stored. (See Fig. 11.)
- d Press OK until the cursor appears by the next programme position.
- e Repeat steps 3 to 7 to preset other channels.

#### 7 Search

- a Press OK repeatedly until the colour of the SEARCH position changes.
- b Start searching for the channel with  $\Delta$  (up) or  $\nabla$ - (down). The CH position changes colour. (See Fig. 12.) The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)
- c Press OK if you want to store this channel. If not, press  $\Delta$  or  $\nabla$ - to continue channel searching.
- d Press OK until the cursor appears by the next programme position.
- e Repeat steps 3 to 7 to preset other channels.

2 B/G C 21 off

Fig. 8

3 EXT AV1

Fig. 9

2 B/G C 21 off

Fig. 10

2 B/G C 35 off

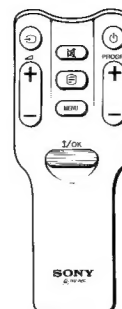
Fig. 11

2 B/G C 35 off

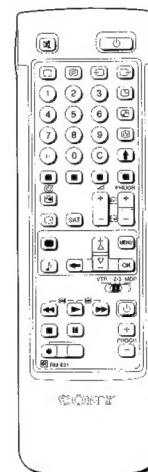
Fig. 12

2 B/G C 50

Fig. 13



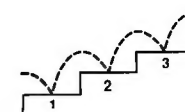
### PROGRAMME SORTING



### INSTALLATION

**For higher programme positions:**  
The display scrolls automatically.  
**If you have made a mistake:**  
Press  $\leftarrow$  to go back to the previous position.  
**To go back to main menu:**  
Keep pressing  $\leftarrow$ .  
**To go back to the normal TV picture:**  
Press MENU.

## Additional Presetting Functions



This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

### Before you begin

- Check that the Full Function side of the Remote Commander is visible
- Locate the Menu operation buttons.

## Sorting Programme Positions

With this function, you can sort the programme positions to a preferable order.

- 1 Press MENU to display the main menu.
- 2 Select the symbol for »Preset« with  $\Delta$  or  $\nabla$ - and press OK. The PRESET menu appears.
- 3 Select »Programme Sorting« with  $\Delta$  or  $\nabla$ - and press OK. The PROGRAMME SORTING menu appears. (See Fig. 14.)
- 4 Using  $\Delta$  or  $\nabla$ - select the programme position which you want to move to another and press OK. The colour of the selected position changes. (See Fig. 15.)
- 5 Using  $\Delta$  or  $\nabla$ - select the programme position to which you want to move the channel of the programme position selected in step 4 and press OK. Now the programme positions have been sorted. (See Fig. 16.)
- 6 Repeat steps 4 and 5 to sort other programme positions.

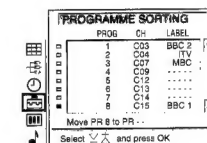


Fig. 14

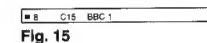


Fig. 15

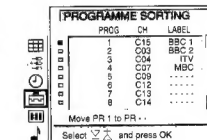


Fig. 16

## How to adjust the Picture Rotation

If due to the earth magnetism the picture »slants«, you can use the function »Picture Rotation« to readjust the picture.

- 1 Press MENU to display the main menu.
- 2 Select the symbol for »Preset« with  $\Delta$  or  $\nabla$ - and press OK. The PRESET menu appears.
- 3 Select »Installation« with  $\Delta$  or  $\nabla$ - and press OK. The INSTALLATION menu appears.
- 4 Select »Picture Rotation« with  $\Delta$  or  $\nabla$ - and press OK. The PICTURE ROTATION menu appears. (See Fig. 17.)
- 5 Press OK. Adjust the picture rotation with  $\Delta$  or  $\nabla$ - until you have an upright picture. As you press the cursor buttons, the range changes from - 4 to + 4.
- 6 Press OK to store the adjustment.

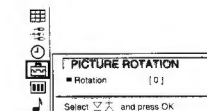



Fig. 17

## INSTALLATION

### Using »Further Programme Preset«

Using the menu »Further Programme Preset« you can

- individually adjust and store the volume level of each channel (Volume offset),
- in case of a strong sound signal (distorted sound), attenuate the sound signal for each programme position.
- use the manual fine tuning to obtain a better picture reception, if the picture is distorted. Normally the AFT (automatic fine tuning) is operating.

- Press MENU to display the main menu.
- Select the symbol  for »Preset« with  $\Delta$  or  $\nabla$  and press OK. The PRESET menu appears.
- Select »Installation« with  $\Delta$  or  $\nabla$  and press OK. The INSTALLATION menu appears.
- Select »Further Programme Preset« with  $\Delta$  or  $\nabla$  and press OK. The FURTHER PROGRAMME PRESET menu appears (See Fig. 18).
- Using  $\Delta$  or  $\nabla$  select the desired programme position and press OK once to select a) VOL (Volume offset), twice to select b) »IN-AMP« (Input Amplifier) or three times to select c) AFT (Automatic Fine Tuning). The selected item changes colour.

To adjust or change:

- Volume offset (VOL)**  
Using  $\Delta$  or  $\nabla$  you can adjust the volume level for the selected programme position within a range from -7 to +7. Press OK to store the volume level. Repeat step 5 to set the volume level for other programme positions.
  - IN-AMP (Input amplifier)**  
Using  $\Delta$  or  $\nabla$  select »Off« for the selected programme position. Press OK to confirm the selection. Repeat step 5 to switch off the input amplifier for other programme positions.
  - AFT**  
Using  $\Delta$  or  $\nabla$  you can fine-tune the channel within a range from -15 to +15. Press OK to store the fine-tuned level. Repeat step 5 to fine-tune the other channels.
- Press MENU to return to the normal TV mode.

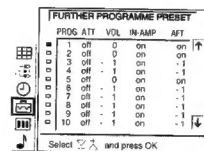


Fig. 18

**To reactivate AFT (Automatic Fine Tuning)**  
Repeat from the beginning and select »ON« in step 5.

## MANUAL PROGRAMME PRESET

### Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROG +/- buttons. However, the skipped programmes may still be called up when you use the number buttons.


- Press MENU to display the main menu.
- Select the symbol  for »Preset« with  $\Delta$  or  $\nabla$  and press OK. The PRESET menu appears.
- Select »Manual Programme Preset« with  $\Delta$  or  $\nabla$  and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 19.)
- Using  $\Delta$  or  $\nabla$ , select the programme position which you want to skip and press OK. The »SYS« position changes colour.
- Press  $\Delta$  or  $\nabla$  until »- - -« appears in the SYSTEM position. (See Fig. 20.)
- Press OK. (See Fig. 21.) When you select programmes using the PROG +/- buttons, the programme position will be skipped.
- Repeat steps 4 to 6 to skip other programme positions.



Fig. 19

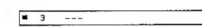



Fig. 20



Fig. 21

### Captioning a Station Name

Programme names are usually automatically taken from Teletext if available. You can also »name« a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

- Press MENU to display the main menu.
- Select the symbol  for »Preset« with  $\Delta$  or  $\nabla$  and press OK. The PRESET menu appears.
- Select »Manual Programme Preset« with  $\Delta$  or  $\nabla$  and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 22.)
- Using  $\Delta$  or  $\nabla$ , select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- Select a letter or number with  $\Delta$  or  $\nabla$  and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select - and press OK. (See Fig. 23.)
- After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 24.)
- Repeat steps 5 and 6 to caption names for other channels.

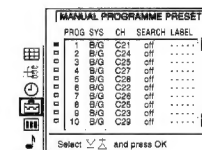


Fig. 22

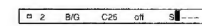


Fig. 23

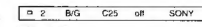


Fig. 24

**If you have made a mistake:**  
Press  $\leftarrow$  to go back to the previous position.



**To go back to main menu:**  
Keep pressing  $\leftarrow$ .

**To go back to the normal TV picture:**  
Press MENU.


## PARENTAL LOCK

### Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- 2 Select the symbol  for »Preset« with  $\Delta$ + or  $\nabla$ - and press OK. The PRESET menu appears.
- 3 Select »Parental Lock« with  $\Delta$ + or  $\nabla$ - and press OK. The PARENTAL LOCK menu appears. (See Fig. 25.)
- 4 Using  $\Delta$ + or  $\nabla$ -, select the programme position you want to block and press OK. The symbol  appears in front of the programme number indicating that this programme is now blocked. (See Fig. 26.)
- 5 Repeat step 4 to block other programme positions.

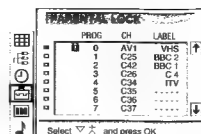
#### Cancelling blocking

- 1 On the PARENTAL LOCK menu, select the programme position you want to unblock with  $\Delta$ + or  $\nabla$ -.
- 2 Press OK. The symbol  disappears indicating that the blocking has been cancelled.

### Tuning in a Channel Temporarily

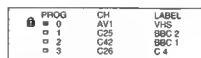
You can tune in a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

- 1 Press C on the Remote Commander. For cable channels, press C twice. The indication »C« (»S« for cable channels) appears on the screen.
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears. However, the channel will not be stored.



PROG	CH	LABEL
0	AV1	VHS
1	C25	BBC 2
2	C26	BBC 1
3	C27	ITV
4	C28	C 4
5		
6		
7		

Fig. 25

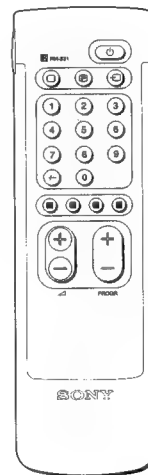




PROG	CH	LABEL
0	AV1	VHS
1	C25	BBC 2
2	C26	BBC 1
3	C27	ITV
4	C28	C 4
5		
6		
7		

Fig. 26

## Operating Instructions

### Watching the TV



If no picture appears when you depress  on the TV and if the standby indicator on the TV is lit, the TV is in standby mode. Press  or one of the number buttons to switch II on.

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

### Switching the TV on and off

#### Switching on


Depress  on the TV.

#### Switching off temporarily

Press  on the Remote Commander.

The TV enters standby mode and the standby indicator on the front of the TV lights up.

#### To switch on again

Press , PROG  $\pm$  or one of the number buttons on the Remote Commander.

#### Switching off completely

Depress  on the TV.

### Selecting TV Programmes

Press PROG  $\pm$  or the number buttons.

#### To select a double-digit number

Press  $\pm$ , then the number.

For example, if you want to choose 23, press  $\pm$ , 2 and 3.


### Adjusting the Volume

Press  $\triangle/\nabla$ .

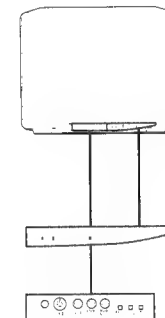
### Operating the TV Using the Buttons on the TV

- With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

Press P  $\rightarrow$   button repeatedly until the programme

number,  $\triangle$  (for volume), or  (for video input picture) appears. Then adjust with the  $\pm$  buttons.

- Press  $\pm$  buttons to switch on the TV from the standby mode.
- Press  $\pm$  simultaneously to reset picture and sound controls to the factory preset level (RESET function).








## Dolby Pro Logic Set Up

With Dolby Pro Logic Surround you can experience »three dimensional« sound when receiving Dolby Surround encoded programmes. This menu enables you to adapt the Dolby Pro Logic Surround features to your individual requirements.

### Adjusting the sound level of the speakers

Dolby Pro Logic uses 4 sound channels to supply 5 speakers: Left and right: Left and right TV speakers  
Centre: Centre speaker for dialogues  
Surround: Surround speakers for surround sound effect  
Using »Level Settings« a noise generator enables you to adjust the sound levels of the speakers to your individual listening position. From your listening position all sound levels should be the same.

- 1 Press MENU, select the symbol  on the screen for »Preset« and press OK. Then select »Installation« and »Dolby Pro Logic Set Up« using  $\Delta$  or  $\nabla$  and press OK. The Dolby ProLogic SET UP menu appears (See Fig. 32).
- 2 Press OK. The cursor moves to Left (sound level of the left speaker) (See Fig. 33) and you hear a test tone from the left speaker.
- 3
  - a) To change the level: Press OK and adjust the highlighted bar by pressing  $\Delta$  or  $\nabla$  repeatedly. Press OK to confirm the adjustment.  
or
  - b) To go on the next bar: Press  $\Delta$  or  $\nabla$  to select Centre, Right or Surround. Adjust using step 3a).
- 4 Repeat steps 3a and b to adjust all sound levels.
- 5 Press  $\leftarrow$  to exit »Level Settings« and Menu to return to the normal TV screen.

### Setting Speaker Mode and Delay Time

- 1 Select »Dolby ProLogic Set Up« in the »Installation« menu using  $\Delta$  or  $\nabla$  and press OK.
- 2 Press  $\nabla$  to select »Speaker Mode« and press OK. Using  $\Delta$  or  $\nabla$  select  
Normal: if all speakers are activated  
Phantom: if the centre speaker is not activated  
3 stereo: if the surround speakers are not activated  
Press OK to confirm your selection.
- 3 Press  $\nabla$  to select »Delay Time« and press OK. You can select a time delay for the sound of the surround speakers which depends on your room size (e.g. 20ms for standard rooms, 30 ms for small rooms)  
15 ms  $\Rightarrow$  20 ms  $\Rightarrow$  25 ms  $\Rightarrow$  30 ms  
 $\uparrow$   
Press OK to confirm your selection.
- 4 Press MENU to return to the normal TV screen.

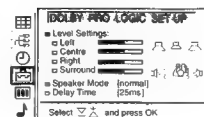


Fig. 32



Fig. 33

**Note:** The modifications made in »USER« mode will be stored. All other settings are reset to factory-set level when you change to another mode.

## Graphic Equalizer

Using this function you can individually adjust the sound by cutting and boosting selected frequencies. You can also select between the following modes:

Flat  $\Rightarrow$  Pop  $\Rightarrow$  Rock  $\Rightarrow$  Jazz  $\Rightarrow$  Vocal  $\Rightarrow$  User

- 1 Select »Sound Control« in the main menu, then select »Graphic Equalizer« using  $\Delta$  or  $\nabla$  and press OK. The GRAPHIC EQUALIZER menu appears (See Fig. 34).
- 2 Press OK. The colour of »Mode« changes. Select the desired mode with  $\Delta$  or  $\nabla$  and press OK.
- 3 If you want to modify a mode, select the desired bar of a frequency band using  $\Delta$  or  $\nabla$  and press OK. The selected frequency changes colour. Using  $\Delta$  or  $\nabla$  adjust the level of frequency and press OK. In this way you can adjust all 5 graphic bars.
- 4 Press MENU to return to the normal TV mode.

### Preset Dolby Pro Logic

To enjoy programmes encoded in Dolby Surround sound, switch on »Dolby Pro Logic« in the sound menu.

- 1 Press  $\mathcal{J}$  on the Remote Commander. The SOUND CONTROL menu appears.
- 2 Using  $\Delta$  or  $\nabla$  select »Surround Mode« and press OK.
- 3 Using  $\Delta$  or  $\nabla$  select »Dolby« and press OK.  
After the end of the broadcast make sure to return the setting to »OFF«.

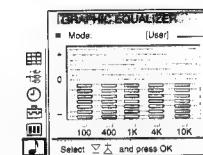



Fig. 34

Flat  
Pop  
Rock  
Jazz  
Vocal  
User

## Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

- 1 Using  $\Delta$  or  $\nabla$  select the symbol  for »Timer« and press OK. The TIMER menu appears (see Fig. 35).
- 2 Press OK. The time period option changes colour.
- 3 Select the time period with  $\Delta$  or  $\nabla$ . The time period (in minutes) changes as follows:  
10  $\rightarrow$  20  $\rightarrow$  30  $\rightarrow$  40  $\rightarrow$  50  $\rightarrow$  60  $\rightarrow$  70  $\rightarrow$  80  $\rightarrow$  90  
 $\uparrow$
- 4 After selecting the time period, press OK. The cursor moves back to the left margin and the timer starts counting. One minute before the TV switches into standby mode, a message is displayed on the screen.

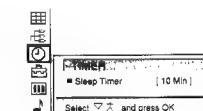
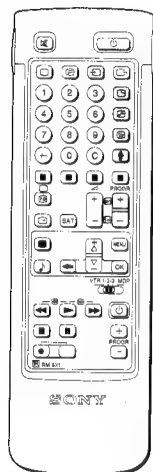


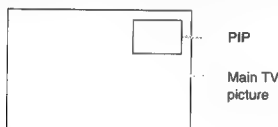
Fig. 35

# PIP (Picture in Picture)



**Notes:**  
• RGB input source cannot be displayed in PIP.

With this function you can display a »PIP screen« (small picture) within the main TV picture. In this way you can watch or monitor the video output from any connected equipment (for example from a VTR) while watching TV or vice versa. For information about connection of other equipment, refer to page 55.



## Switching PIP on and off

Press .  
The PIP screen will be displayed. The PIP picture will come from the source chosen when the TV was last used.

**To switch PIP off**  
Press again.

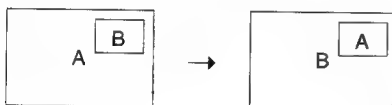
## Selecting a PIP source

Press .  
The symbol will be displayed at the bottom, left-hand corner of the screen.  
Press repeatedly until the desired source is indicated (e.g. TV, AV1, AV2, YC2, AV3, YC3, AV4, YC4).

**Note**  
If no video source has been connected, the PIP picture will be noisy.

## Swapping screens

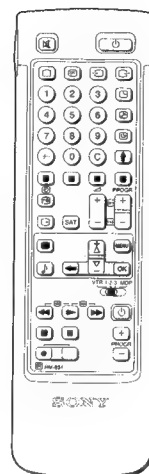
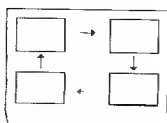
Press .  
The main screen will switch the picture with the PIP screen.



**Note**  
If a TV programme is on the PIP screen and a video source on the main picture, and you want to change channels, first press and then the programme buttons or PROGR +/-.

## Changing the position of the PIP

Press repeatedly to change the position of the PIP screen within the main screen. There are four different positions available.



## Operating Multi PIP using the Menu

Using the »Multi PIP« Menu you have the possibility to operate the PIP mode, scan 9 successive TV channels on the screen (Programme Catching), display 8 successive freeze images (Photo mode) or reproduce the main picture image by image (strobe function).

- 1 Press MENU to display the main menu.
- 2 Select the symbol for »MULTI PIP« with or and press OK. The MULTI PIP menu appears (See Fig. 36).

- Programme Catching**  
Using or select »Programme Catching« and press OK. Now a scan of 9 successive programmes (8 still pictures, 1 live picture where the cursor is positioned) is displayed on the TV screen starting from the programme tuned in. Using or you can move the cursor and update the still pictures. The programme scanning starts again if you select the programme position lower or higher than the 9 displayed ones (See Fig. 37).

**To select a Programme using Programme Catching**  
Using or select the desired programme position and press OK. Now the selected programme is displayed and you are back in the normal TV mode.

- Photo Mode**  
Using or select »Photo« and press OK. Now the main picture is displayed as a succession of 8 still pictures and a 9th picture which will be live (See Fig. 38). Using or the photo mode starts again. Press OK to return to the normal TV mode.
- Strobe mode**  
Using or select »Strobe« and press OK. Now the TV picture is displayed image by image, which gives it the effect of slow motion (See Fig. 39). Using or select the speed of the motion (3 different speeds are available). Press OK to return to the normal TV mode.
- Switching PIP on and off**  
Using or select »PIP« and press OK. Using or select »ON« to display the PIP screen and »OFF« to switch it off and press OK.
- Changing the position of the PIP**  
Using or select »PIP position« and press OK. Using or repeatedly to change the position of the PIP screen and press OK.

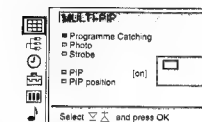


Fig. 36

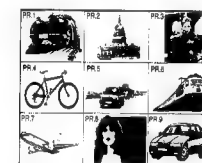


Fig. 37



Fig. 38

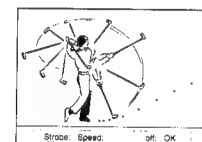
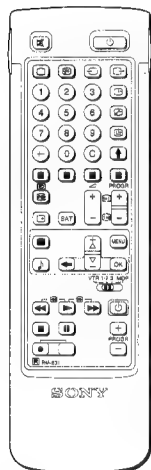
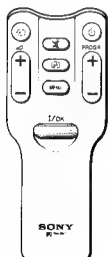


Fig. 39

# Teletext



**Notes:**  
• Teletext errors may occur if the broadcasting signals are weak.



**Note:**  
Fastext operation is only possible, if the TV station broadcasts Fastext signals.

TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

## Direct Access Functions

### Switching Teletext on and off

- 1 Select the TV channel which carries the teletext broadcast you want to watch.
- 2 Press to switch on teletext.  
A teletext page will be displayed (usually the index page). If there is no teletext broadcast, »No text available« is displayed on the information line at the top of the screen.

### To switch teletext off

Press .

### Selecting a teletext page

#### With direct page selection

Use the number buttons to input the three digits of the chosen page number.

If you have made a mistake, type in any three digits. Then re-enter the correct page number.

#### With page-catching

- 1 Select a teletext page with a page overview (e.g. index page).
- 2 Press OK. Using  $\Delta$ + or  $\nabla$ -, select the desired page. »Page Catching« will be displayed on the information line. Press OK. The requested page will appear in a few seconds.

Press to resume normal teletext reception.

#### Accessing the next or preceding page

Press (PAGE +) or (PAGE -).

The next or preceding page appears.

### Superimposing the teletext display on the TV programme

- Press once in teletext mode or twice in TV mode.
- Press again to resume normal teletext reception.

### Preventing a teletext page from being updated

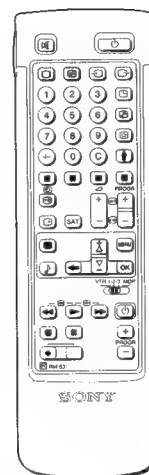
- Press (HOLD). The HOLD symbol is displayed on the information line.
- Press to resume normal teletext reception.

### Using Fastext

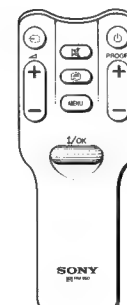
With Fastext you can access pages with one key stroke. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.

Press the corresponding coloured button on the Remote

Commander which corresponds to the colour-coded menu. The page will be displayed after some seconds.



**Note:**  
Some of the features may not be available depending on the Teletext service.



**To cancel the request:**  
Select »OFF« for the TIME PAGE setting.

## Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

- 1 Press MENU. The menu will be superimposed on the teletext display. (See Fig. 40)
- 2 Using  $\Delta$ + or  $\nabla$ -, select the teletext function you want and press OK. (See Fig. 41)

### USER PAGES/PRESET USER PAGES

See page 54 for information about presetting and operating the user pages.

### INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

### TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down the screen. After having selected the function, an information line Top/Bottom/Full will be displayed. (See Fig. 42).

Press  $\Delta$ + for »Top« to enlarge the upper half. For »Bottom« keep pressing  $\nabla$ -, to enlarge the lower half. Press OK for »Full« to resume the normal size.

Press to resume normal teletext reception.

### TEXT CLEAR

After having selected the function, you can watch a TV programme while waiting for a requested teletext page to be captured (The symbol changes colour) (See Fig. 43). Press to view the requested page.

### SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

### REVEAL

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line »REVEAL ON/OFF« will be displayed. (See Fig. 44).

Using  $\Delta$ + or  $\nabla$ -, select ON to reveal the information or OFF to conceal it again.

Press to resume normal teletext reception.

### TIME PAGE

Your teletext service will inform you, if a time coded page is available. You may have a page (e.g. an alarm page) displayed at a certain time.

- 1 Press OK. Using  $\Delta$ + or  $\nabla$ - select ON and press OK.
- 2 To select the desired page, enter the three digits of the page number (e.g. 301) using the number buttons.
- 3 To select the time, enter four digits for the desired time (e.g. 1800) using the number buttons. Press MENU. The selected time is displayed at the top in the left-hand corner. At the requested time, the page will be displayed. Press to resume normal teletext mode.

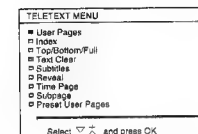


Fig. 40

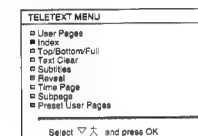


Fig. 41

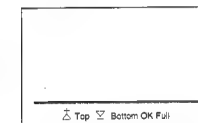


Fig. 42

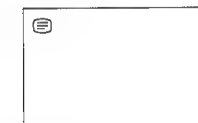


Fig. 43

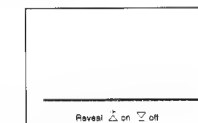


Fig. 44

To cancel the request:  
Select »Subpage« and press OK.

## SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR+/- or the number buttons. (e.g. enter 0002 for the second page of a sequence).

## User Page Bank System

You can store up to 30 pages in the »Teletext page bank system«. In this way you have quick access to the pages you watch frequently.

### Storing pages

There are 5 »banks« (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

- Press (if Teletext is not on already) and MENU to show the TELETXT MENU display.
- Select PRESET USER PAGES with  $\Delta$ + or  $\nabla$ - and press OK.
- Select the desired bank with  $\Delta$ + or  $\nabla$ - and press OK. The cursor will go to the first position (P1) of the preferred pages.
- Input the three digits of your first preferred page with the number buttons and press OK. The cursor will go to the second position.
- Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number. After having finished the presetting press OK repeatedly until the cursor appears besides the next bank at the left margin.
- Select Allocate Bank with  $\Delta$ + or  $\nabla$ - and press OK.
- Select the programme position for which you have preset pages with  $\Delta$ + or  $\nabla$ - and press OK. (See Fig. 45)
- Select the desired bank with  $\Delta$ + or  $\nabla$ - (Banks A to E are available) and press OK.
- Repeat steps 3 to 8 for the other 4 banks available.

### Displaying User Pages

- Select MENU.
- Select User Pages with  $\Delta$ + or  $\nabla$ - and press OK. A table of the stored preferred pages will be displayed. (See Fig. 46)
- Select the desired page with  $\Delta$ + or  $\nabla$ - and press OK. The page will be displayed after some seconds.

or

You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P 2 to the green one, P 3 to the yellow one and P 4 to the blue button.

To select the desired page press the respective coloured button while you are in TV mode. Now the Page number of this teletext page will appear in white at the top in the left-handed corner of the TV screen. When the page number changes colour, the page is available. Press the coloured button again to display the page.



PRESET USER PAGES						
BANK	P1	P2	P3	P4	P5	P6
A	300	255	456	234	230	179
B	200	120	301	303	550	345
C	100	220	300	444		
D	128	321	255			
E	400	238	240	118	127	
Allocate Bank						
PROG	LABEL	BANK	PROG	LABEL	BANK	
00	VHS	—	04	MTV	D	
01	BBC1	A	05	SKY	B	
02	BBC2	C	06	ITV	C	
<hr/>						
Select   and press OK						

Fig. 45



USER PAGES - BANK B	
#	PAGE 300
#	PAGE 200
#	PAGE 203
#	PAGE 500
#	PAGE 234
#	PAGE 159
Select   and press OK	

Fig. 46

# Connecting and Operating Optional Equipment

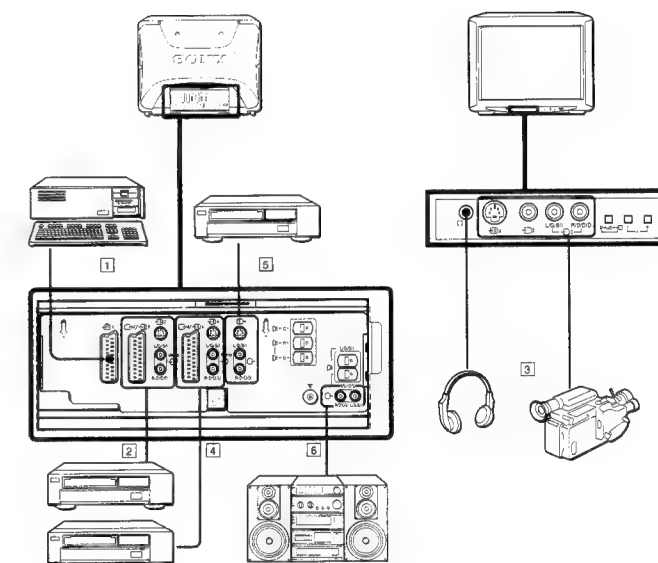
## Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as VCRs, video disc players, and stereo systems.

To connect a VCR using the T terminal  
Connect the aerial output of the VCR to the aerial terminal T of the TV.

We recommend that you tune in the signal to programme number »0«. For details see »Preset Channels Manually« on page 39.

If the picture or the sound is distorted  
Move the VCR away from the TV.



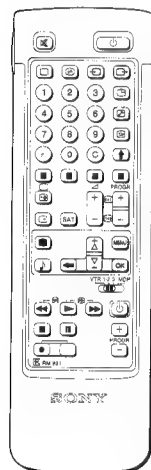
### S video input (Y/C Input)

Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance). This TV is equipped with 3 S Video input jacks through which these separated signals can be input directly.

When connecting a monaural VCR:  
Connect only the white jack to both the TV and VCR.

Acceptable input signal	Available output signal
1 Normal audio/video and RGB signal	Video/audio from TV tuner
2 Normal audio/video and S video signal	Video/audio from selected source
3 Normal audio/video and S video signal	No outputs
4 Normal audio/video and S video signal	Video/audio displayed on TV screen (monitor out)
5 No inputs	S video/audio signal displayed on TV screen (monitor out)
6 No inputs	Audio signal (variable)

**Selecting input with PROGR +/- or number buttons:**  
You can preset video input sources to the programme positions so that you can select them with PROGR +/- or number buttons. For details, see »Preset channels manually« on page 38.



## Selecting input and output

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

### Selecting input

Press repeatedly to select the input source. The symbol of the selected input source will appear.

### To go back to the normal TV picture

Press .

### Input modes

Symbol	Input signal
	Audio/video input through the  1 connector
	RGB input through the  1 connector
	Audio/video input through the  2/-32 connector
	S video input through the  2/-32 or -32 connector
	Audio/video input through  3 and  3 connectors at the front
	S video input through the  3 connectors (4-pin connector) at the front
	Audio/video input through the  4/-34 connector
	S video input through the  4/-34 or -34 connector (4-pin connector)

You can also select the input mode using the P and +/- buttons on the TV.

In this case, select first and then press the +/- buttons to select the input.

### Selecting the output

The 2/-32 connector outputs the source input from the other connectors.

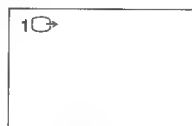
You can also select the input mode using the and buttons on the TV. In this case, select first and then press the buttons to select the input.

Symbol	2/-32 connector outputs
1	The audio/video signal from the  1 connector
2	The audio/video signal from the  2/-32 connector
2	The audio/video signal from the  2/-32 connector
3	The audio/video signal from the  3,  3 connectors
3	The audio/video signal from the  3,  3 connectors
4	The audio/video signal from the  4/-34 connector
4	The audio/video signal from the  4/-34 connector
TV	The audio/video signal from the T aerial terminal

## Using AV Preset

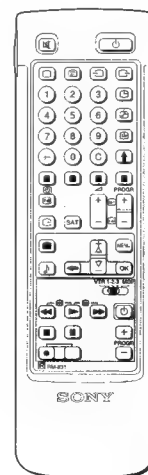
Using this function you can preset the desired input source (e.g. 1, RGB signal) to the respective AV input (AV 1 ). In this way a connected VTR will automatically switch to the RGB signal.

- 1 Select the symbol for »Preset« with  $\Delta$ + or  $\nabla$ - and press OK.
- 2 Select first »Installation«, then »AV Preset« with  $\Delta$ + or  $\nabla$ - and press OK. The AV PRESET menu appears (See Fig. 47).
- 3 Select the desired AV input with  $\Delta$ + or  $\nabla$ - and press OK.



AV PRESET			
AV-INPUT	SOURCE	LABEL	
	AV1	RGB	RGB
	AV2	YC	YC2
	AV3	YC	YC2
	AV4	YC	YC2

Fig. 47



**When recording**  
When you use the (record) button, make sure to press this button and the one to the right of it simultaneously.

- 4 Select the desired source with  $\Delta$ + or  $\nabla$ - and press OK. For the respective AV inputs you have the following possibilities:  

AV 1	RGB or AV	AV 3	YC3 or AV
AV 2	YC2 or AV	AV 4	YC or AV
- 5 If you want to name the AV input select »Label« using  $\Delta$ + or  $\nabla$ - and press OK. Select a letter or a number with  $\Delta$ + or  $\nabla$ - and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select - and press OK. After having selected all the characters, press OK repeatedly until the cursor appears by the next AV input at the left margin.
- 6 Repeat steps 3 to 5 for the other AV inputs.

### Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen and PIP screen, and which output source is selected. You can also select them on the menu display.

- 1 Select the symbol for »Video Connection« with  $\Delta$ + or  $\nabla$ - and press OK. The VIDEO CONNECTION menu appears. (See Fig. 48)
- You can see which source is selected for the TV and PIP input, and for the output. If you want to select the input and output on this menu, go on to the next step.
- 2 Select TV Screen (input source for the TV screen), PIP (input source for the PIP screen), or output (output source) with  $\Delta$ + or  $\nabla$ - and press OK. One of the source items changes colour.
- 3 Select the desired source with  $\Delta$ + or  $\nabla$ -.
- 4 Press OK. The selected source is confirmed, and the cursor appears.
- 5 Repeat steps 2 to 4 to select the source for other inputs or outputs.

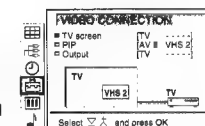


Fig. 48

## Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control other Sony remote-controlled video equipment. The buttons for video operation have been factory-set to control most of Sony video equipment, such as: Beta, 8mm or VHS VCRs or video disc players.

### Tuning the Remote Commander to the equipment

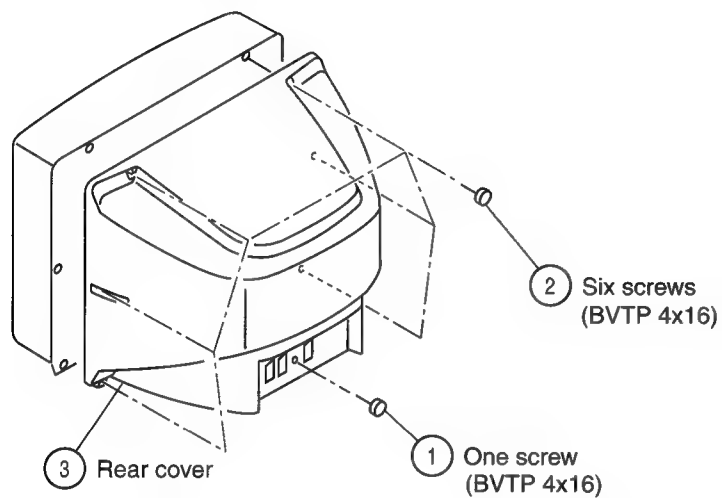
- 1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:  
 VTR 1: Beta VCR  
 VTR 2: 8mm VCR  
 VTR 3: VHS VCR  
 MDP: Video disc player
- 2 Use the buttons indicated in the illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

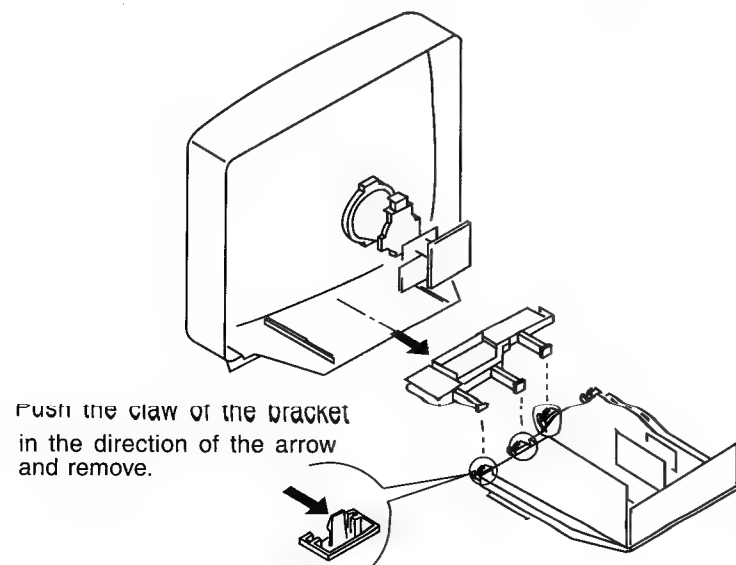
If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

## SECTION 2 DISASSEMBLY

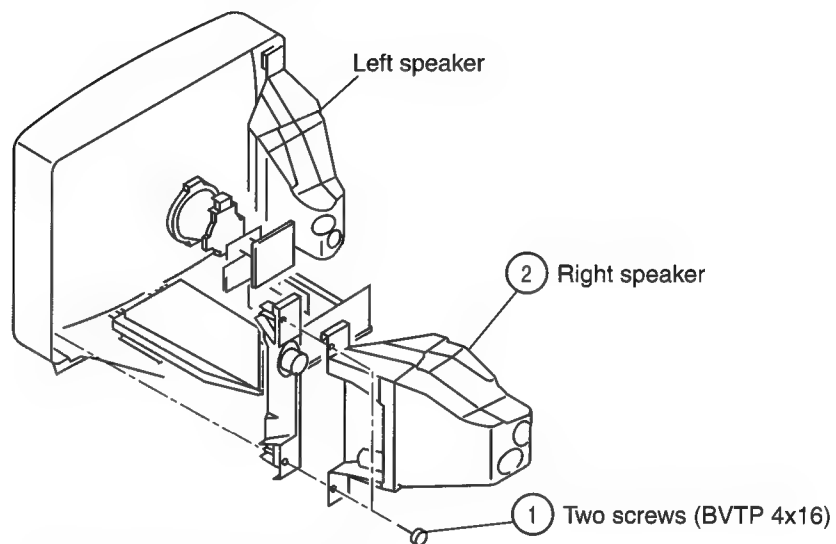
### 2-1. REAR COVER REMOVAL



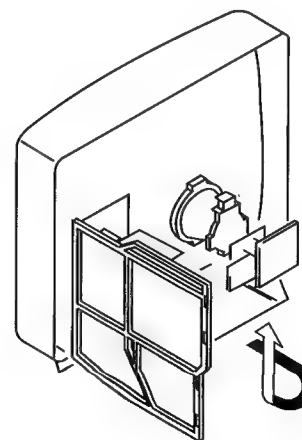
### 2-3. CHASSIS ASSY AND H BRACKET REMOVAL



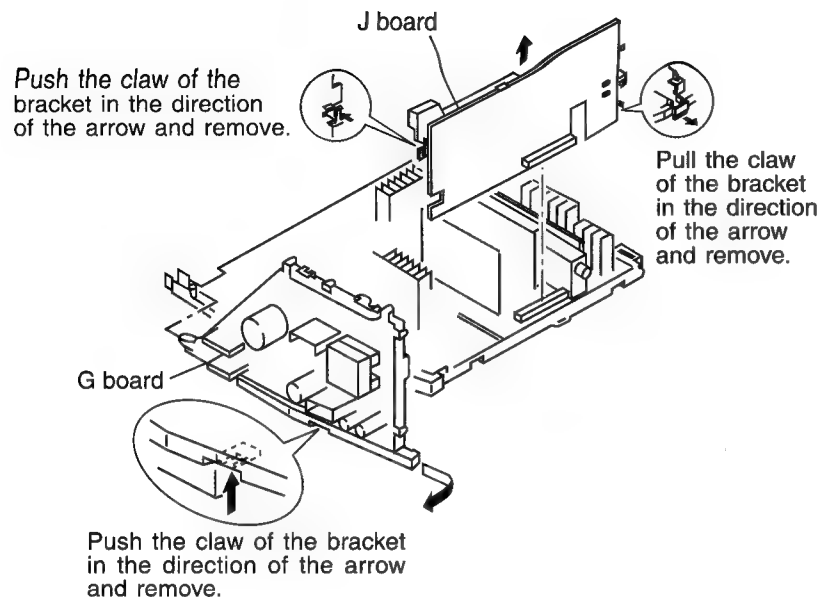
### 2-2. SPEAKER REMOVAL



### 2-4. SERVICE POSITION



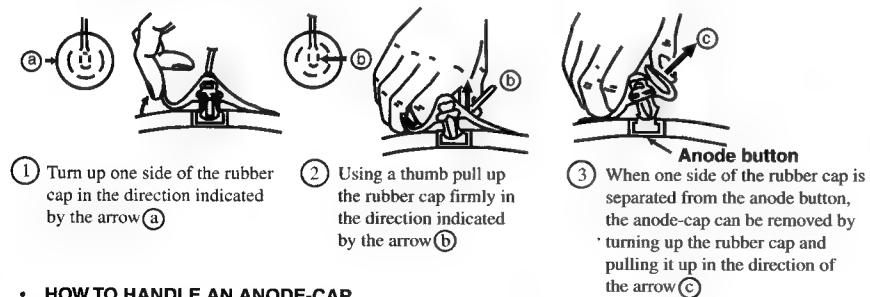
## 2-5. G AND J BOARD REMOVAL



### • REMOVAL OF ANODE-CAP

**Note :** Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

#### • REMOVING PROCEDURES.

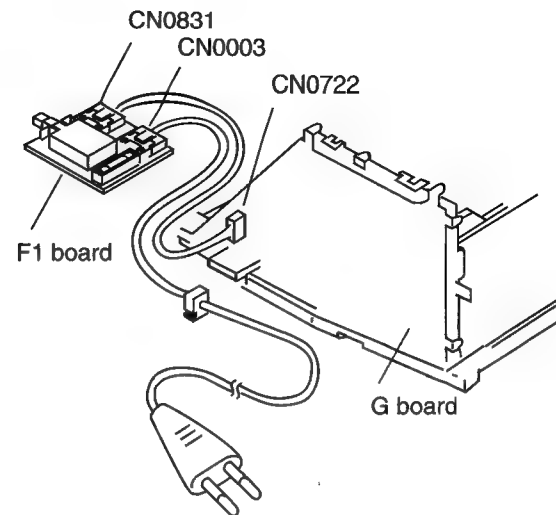


#### • HOW TO HANDLE AN ANODE-CAP

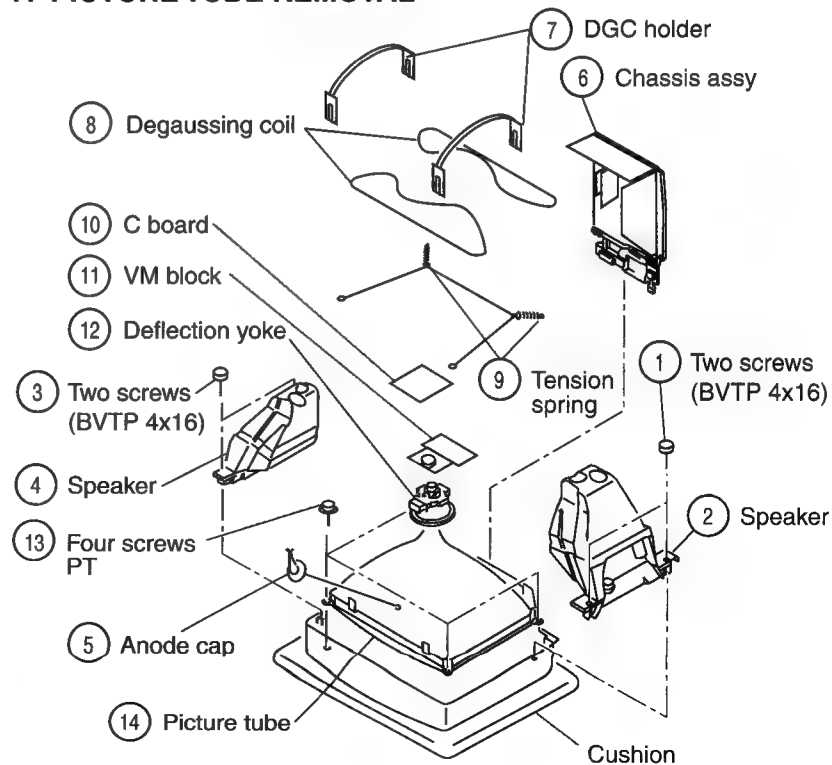
- ① Don't damage the surface of anode-cap with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !  
A metal fitting called as shatter-hook terminal is built into the rubber.
- ③ Don't turn the foot of rubber over hardly !  
The shatter-hook terminal will stick out or damage the rubber.



## 2-6. WIRE DRESSING



## 2-7. PICTURE TUBE REMOVAL



## SECTION 3

### SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustment with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches as follows.

Contrast ..... normal  
 Brightness ..... normal

- Carry out the following adjustments in this order:  
 3-1. Beam landing  
 3-2. Convergence  
 3-3. Focus  
 3-4. White balance

Note: Testing equipment required.

1. Colour bar/pattern generator
2. Degausser
3. Vector scope

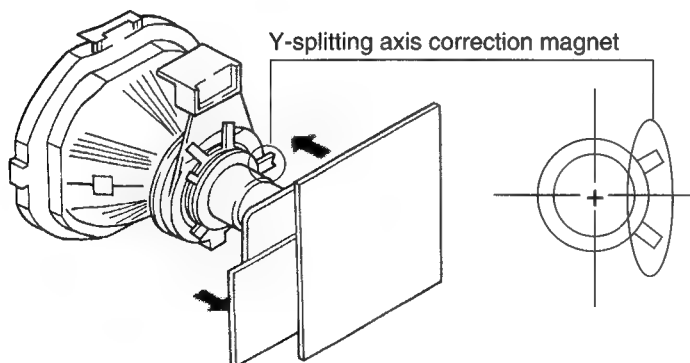
#### 3-1. BEAM LANDING

##### Preparation:

1. In order to reduce the influence of geomagnetism on the set's picture tube face it in an easterly or westerly direction.
2. Switch on the set's power and degauss with the degausser.

##### (1) Adjustment of Correction Magnet for Y-Splitting Axis

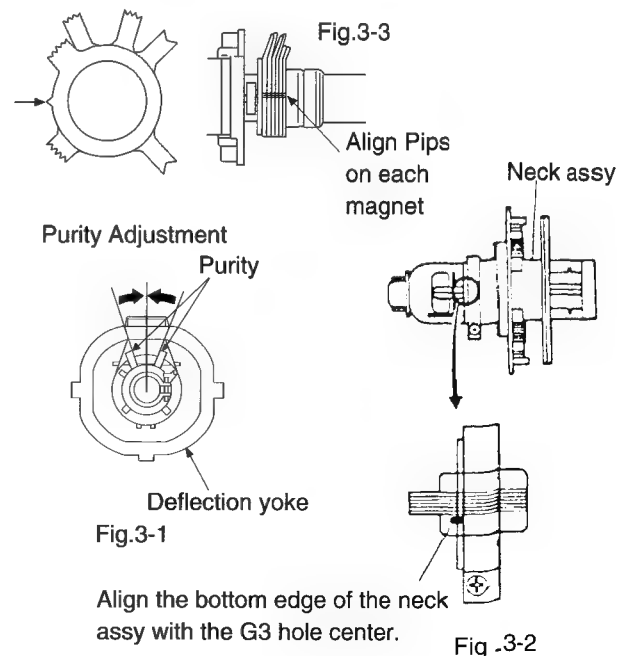
1. Input a crosshatch signal from the pattern generator.
2. Picture control is minimum and brightness control is still normal.
3. Position the neck assy as shown in Fig. 3-2.
4. Move the deflection yoke forward to touch the CRT and it stands up rightly.
5. Adjust the upper pin and the lower pin symmetrically by opening or closing the Y-splitting axis correction magnets on the neck assy.
6. Return the deflection yoke to its original position.



##### (2) Landing

Note: Before carrying out the following adjustments adjust the magnets as indicated below (See Fig.3-3).

1. Input an all-white signal from the pattern generator. Maximize the picture setting and adjust the brightness setting.
2. Rough-adjust the focus and horizontal convergence.
3. Loosen the deflection yoke screws, align the purity adjustment knob to the central position. (See Fig. 3-1)
4. Switch from the all-white pattern to an all-green pattern.
5. Move the deflection yoke backwards and adjust with the purity magnet so that the green is at the center and it aligns symmetrically. (See Fig. 3-4)
6. Move the deflection yoke forward and adjust so that entire screen becomes green.
7. Switch the raster signal to red, then to blue and verify the landing condition.
8. When the position of the deflection yoke has been determined, fasten the deflection yoke with the screw.
9. If the beam does not land correctly in all the corners, use magnets to correct it. (See Fig. 3-5)





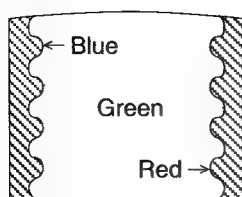


Fig. 3-4

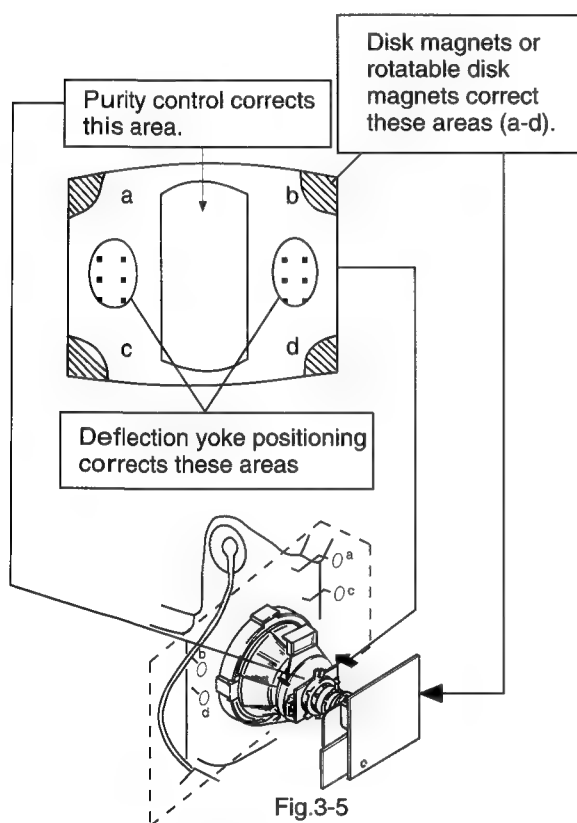
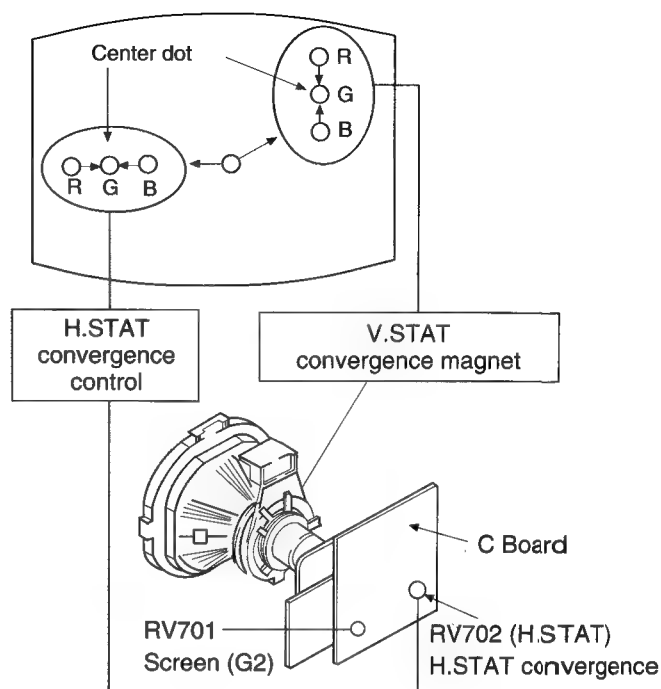


Fig. 3-5

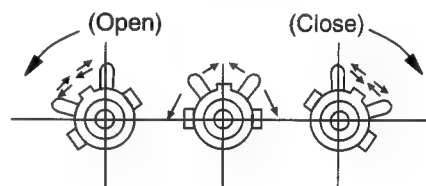
## 3-2. CONVERGENCE

### (1) Screen center convergence (Static convergence)

1. Input a dot signal from the pattern generator. Normalize the picture setting.
2. (Moving horizontally), adjust the H.STAT control so that the horizontal red, green and blue dots coincide at the center of screen.
3. (Moving vertically), adjust the V.STAT magnet so that the vertical red, green and blue points coincide at the center of screen.

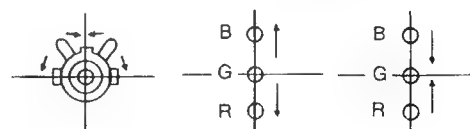


- If the horizontal dots are unable to coincide with the variable range of the H.STAT convergence, adjust together with the V.STAT convergence while tracking. (Adjust the convergence by tilting the V.STAT convergence or by opening or closing the V.STAT convergence.)



4. Movement of the red, green and blue dots by tilting the V.STAT magnet and by opening or closing the V.STAT magnet.

- ① By opening or closing the V.STAT magnet, the red, green and blue points move as shown below



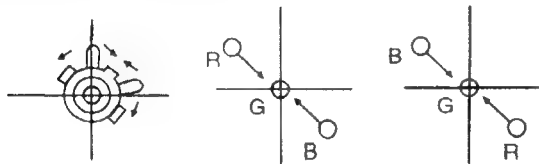
- ② By rotating the V. STAT magnet counterclockwise, the red, green and blue dots move as shown below.



- ③ By rotating the V.STAT magnet clockwise, the red, green and blue dots move as shown below.



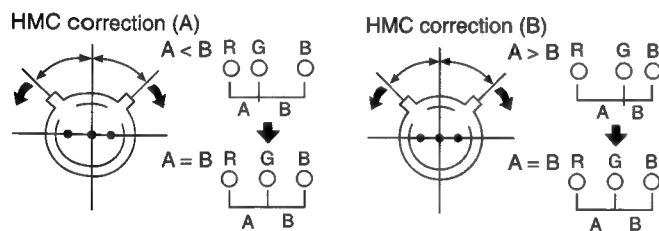
- ④ By opening or closing the V.STAT magnet, the red, green and blue dots move as shown below.



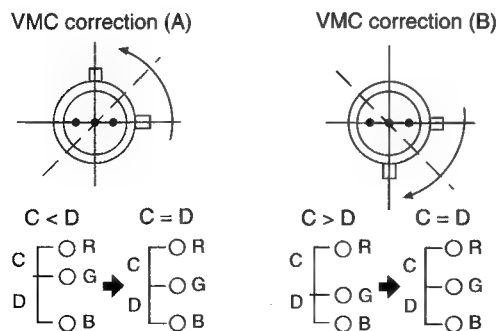
- If the blue dot does not coincide with the red and green points, correct the points by using the BMC (Hexapole) magnet.

- ⑤ Correction for HMC (horizontal mis-convergence) and VMC (vertical mis-convergence) by using the BMC (Hexapole) magnet.

- ① HMC correction by BMC (Hexapole) magnet and movement of the electronic beam.



- ② VMC correction by BMC (Hexapole) magnet and movement of the electronic beam.



### Layout of each control

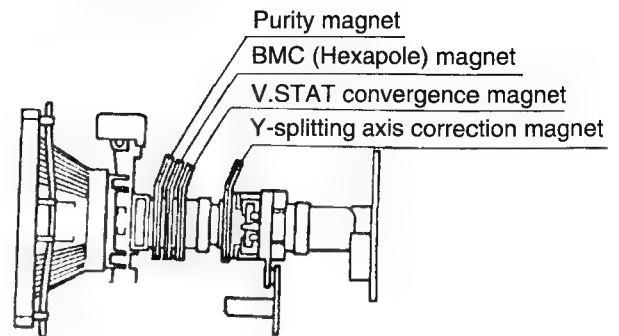
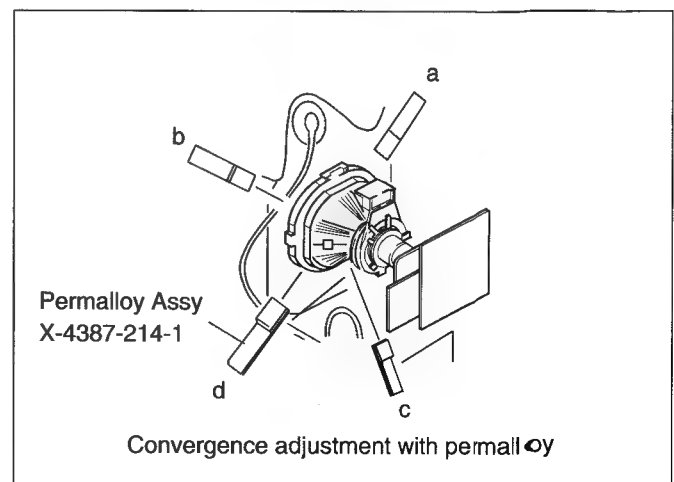
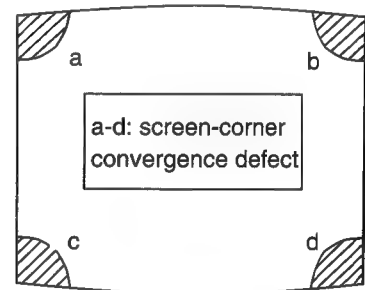


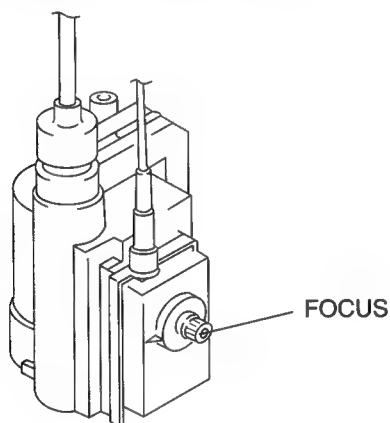
Fig.3-5

- If you are unable to adjust the corner convergence properly, correct them with the use of permalloys.



### 3-3. Focus

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control on the flyback transformer for the best focus at the center of the screen.  
Bring only the center area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



### CRT Driver CXA 1840

Crt Driver		CXA1840
21	R DRIVE	41
22	G DRIVE	adj
23	B DRIVE	adj
24	R CUT-OFF	8
25	R C	0
26	G CUT-OFF	adj
27	G C	0
28	B CUT-OFF	adj
29	B C	0
30	AFC MASK	0
31	DRIVE LVL	52
32	SUB BRT	32
33	H SWEEP SW	on
34	SKEW D	off
35	OUT DC	0

### 3-4. Screen (G2), White balance (Adjustment in the service mode with remote commander)

#### G2 adjustment (RV702)

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 170V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control RV701 [ SCREEN ] on the C board to the point just before the return lines disappear.

#### White balance adjustment

1. Receive an all-white signal.
2. Enter into the Service Mode by pressing 'TEST', 'TEST' and '01' on the Service Commander.
3. Select 'CRT Driver' from the on screen menu display and press **OK**.
4. The 'CRT Driver CXA1840' menu will appear on screen.

5. Set picture to MAX.
6. Set the 'R DRIVE' to 41.
7. Adjust the 'G DRIVE' and 'B DRIVE' with the ▲ ▼ buttons so that the white balance becomes optimum.
8. Press the **OK** button to write the data for each item.
9. Set picture to MIN.
10. Adjust 'R CUT-OFF', 'G CUT-OFF' and 'B CUT-OFF' with the ▲ ▼ buttons so that the white balance becomes optimum.
11. Press the **OK** button to write the data for each item.

## SECTION 4

### CIRCUIT ADJUSTMENTS

#### 4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-831.

##### HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing the + (plus) and - (minus) buttons on the customer front panel.

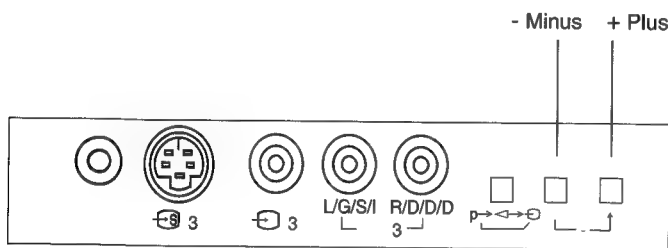


Fig. 4-1

2. "TT" will appear on the upper right corner of the screen.

Command operation in service mode

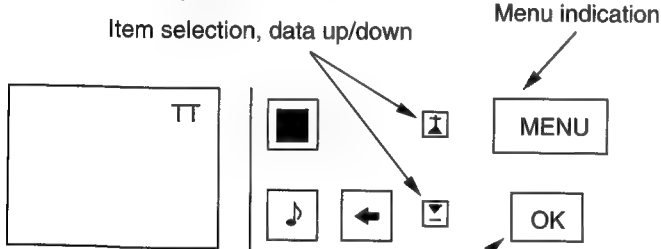


Fig. 4-2

Fig. 4-3 Selection completion, data written-in

3. Press "Test" " "Test" and 01 on the commander to get the menu on screen.

AE -- V7-62	AE-3	08/06/95
Init TV		
PIP Adjust		
Adjustments		
Video Contr		
CRT Driver		
Dynamic Conv		
Video Proc		
PIP		
PIP Dynamic		
Aspect / Field		
SRC		
TDA6812		
PALPLUS		
TDA9160		
TDA9145		

4. Press the and buttons on the remote commander to select the adjustment item.
5. Press the button to proceed to the next menu.
6. If the adjustment item is 'CRT Driver', press the button to move to 'CRT Driver'.
7. The Menu as indicated in Fig 4-4 will appear on the screen.

CRT Driver		CXA1840
1	V POS	adj
2	V SIZE	adj
3	V LIN BAL	adj
4	V LIN	adj
5	V SCROLL	127
6	V ASP PAP	2
7	H POS	adj
8	H SIZE	adj
9	H PIN CUSH	adj
10	H TILT	adj
11	H UP COR	adj
12	H LOW COR	adj
13	AFC V BOW	adj
14	AFC V ANGLE	adj
15	V COMP	5

Fig. 4-4



8. Press the button to move > to the adjustment item and press the button.
9. Press the and buttons to change the data in order to comply with each standard.
10. Press the button to write data into memory.
11. Turn off the power to quit the service mode when adjustments have been completed.

CXA1839 (VIDEO CONT)

Item No	Adjustment item	Data Amount
1	SUB BRT	8
2	SUB COL1	8
3	SUB CONT1	8
4	PIC	53
5	HUE	31
6	COL	31
7	BRT	31
8	SHP	31
9	SUB HUE	7
10	D.COIL	off
11	SHP LIM	off
12	AGE WHT	off
13	R-Y/R	13
14	R-Y/B	15
15	G-Y/R	7
16	G-Y/B	5
17	RGB LEV2	8
18	SUB SHP	3
19	SUB FO	1
20	PRE/OVER	0
21	NR LEVEL	1
22	DC TRAN	0
23	DYN PIC	1
24	CEC LEVEL	2
25	VM LEVEL	2
26	ABL MODE	1
27	DYN ABL	off
28	Y SYM SW	off
29	AGE BLK	off

CXD2035 (ASPECT)

Item No	Adjustment item	Data Amount
1	COMPRESS	7
2	FRAME WID	5

CXD2030 (VIDEO PROCESSOR)

Item No	Adjustment item	Data Amount
1	DNR	on
2	DNR VALUE	5
3	TA SYN CLP	16
4	TB BGP	50
5	TD CLP	25
6	FOTO CD SW	off
7	BLK PORCH	16
8	NT TD BGP	25
9	PAL TD BGP	25
10	N.SECAM TB	50
11	SECAM TB	50
12	358 NR LVL	3
13	443 NR LVL	5

CXD2033D (PIP DYNAMIC)

Item No	Adjustment item	Data Amount
1	443DSP BGP	19
2	358DSP BGP	38
3	SE DSP BGP	19
4	443 LRD H	39
5	358 LRD H	41
6	443MN MPWH	213
7	358MN MPWH	174
8	443 ACC R.	52
9	358 ACC R.	42
10	443MN R RD	39
11	358MN R RD	27
12	FRAME PIP	10
13	FRAME MPX	3

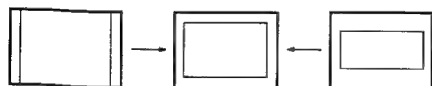
Typical Value (OSD based) when receiving PAL Philips pattern.

# DEFLECTION SYSTEM ADJUSTMENT

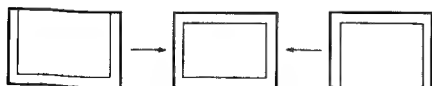
1. Enter into the service mode and select 'CRT Driver'. The 'CRT Driver CXA1840' adjustment menu will be displayed.
2. Select and adjust each item in order to get an optimum image.

Item No	Adjustment item	Data Amount
1	V POS	adj
2	V SIZE	adj
3	V LIN BAL	adj
4	V LIN	adj
5	V SCROLL	127
6	V ASP PAP	2
7	H POS	adj
8	H SIZE	adj
9	H PIN CUSH	adj
10	H TILT	adj
11	H UP COR	adj
12	H LOW COR	adj
13	AFC V BOW	adj
14	AFC V ANGLE	adj
15	V COMP	5
16	H COMP	0
17	WV CENT RF	144
18	WV AREA RF	36
19	W CENT VCR	160
20	W AREA VCR	20

## V SIZE



## V POS



## V LIN



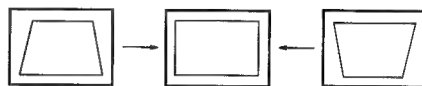
## H SIZE



## H PIN CUSH



## H TILT



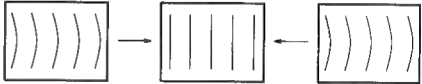
## H UP COR



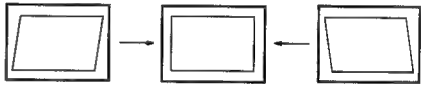
## H LOWER COR



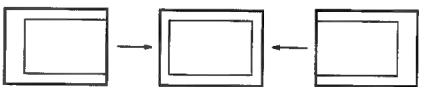
## AFC V BOW



## AFC V ANGLE



## H POS

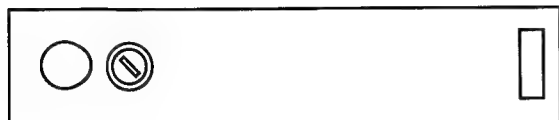


3. Press **OK** button to write the data.

If the menu display prevents viewing the screen while carrying out the adjustments, it can be removed by pressing **OK** on the remote commander. Pressing **OK** once again will restore the menu on screen.

## 4-2. VOLUME ELECTRICAL ADJUSTMENTS

### AGC Adjustment (IF Block)



- IF Block top side -

Fig. 4-5

1. Receive an off-air signal.
2. Adjust the AGC VR so that there is no snow noise and cross-modulation visible on the screen.
3. Change the receiving channel and confirm status.

### Sub Brightness Adjustment

1. Input a Phillips pattern.
2. Select 'RESET' from the menu to normalize the set.
3. Set the CONTRAST to minimum.
4. Press "Test" "Test" and 01 on the remote commander.
5. Adjust the BRIGHTNESS with the +/- buttons on the remote commander after selection of 'Sub Bright' so that the 0 IRE section of the gray scale is completely cut off and the 20 IRE section is only just visible on the screen.
6. Press 'MENU' and '0' twice to release Test mode 2.
7. Select 'RESET' from the menu to normalize the set.

### Picture Rotation Adjustment

1. Input a PAL color bar signal.
2. Press the **MENU** button on the commander to get the menu on screen.
3. Press the and buttons of the commander and move > to PRESET/TIMER followed by INSTALLATION and PICTURE ROTATION.

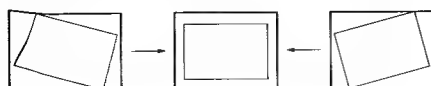
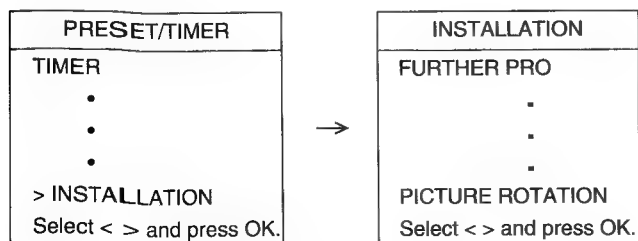


Fig. 4-6

### 4-3. TEST MODE 2:

Is available by pressing the Test button twice, OSD "TT" appears. The functions described below are available by pressing the two numbers. To release Test Mode 2, press 0, 10, 20 ... twice or switch the TV into Standby Mode. Pressing the two Local Control buttons ( + and - ) during Power ON will also switch into "TT" mode.

In TT mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the menu to reappear. The Function is kept even when the menu is not displayed!!

00	Switch back to normal mode - TT mode off
01	Switch service menu on
02	Direct access to Noise reduction
03	Set Volume to 30%
04	Service Menu in "Service Mode"
05	Service Menu in "Production Mode"
06	Set Volume to 80%
07	Aging mode
08	Shipping condition (Production request) To ensure that all TV sets leave the Production with the same presettings. Programme 1 is selected, AV IN is set to AV1, AV Out is set to TV Out, Volume and HP Volume is set to 35%, Resolution is set to high, Format is set to 4:3, Pip is set to Top Left position, Pip is switched off, TT mode is switched off, all analogue values are set to the reset setting, space Sound - Equalizer - Loudness = off, DNR off, Dig. Mode = 1, Wide Zoom Mode for 28W models, Menu Language Reset, Prog. Pointer table reset Non Interlace is allowed in Text mode.
09	Language reset. With this function the "Language Byte" in the NVM (Bank 0AAH Address 0DCH) is erased (set to 0FFH). The Language Menu appears now automatically when the TV set is switched ON as long as no new language is selected.
10	The TT number will be deleted. All numbers with 0 (10, 20, 30, 40, 50, 60, 70, 80, 90) will reset the TT number. A new number can be selected. TT display is kept
11	Direct access to Balance. With Cursor Up/Down the Balance can be controlled (w/o OSD, Menu display)
12	Direct access to Hue. With Cursor Up/Down the Hue can be controlled (w/o OSD, Menu display)
13	Display of Software Version and TV set configuration
14	Production Info Display
15	Read factory setting from ROM (Program code) and store this data at Last Power Memory data location (The previous last power memory data is overwritten) AE3 has 3 packages of Analogue data: 1. Last Power memory data. This data is sent continuously to the corresponding IC's (TDA1839, SC, TDA6812) with this data the TV picture/sound appears. 2. Reset data. By pressing "Reset" in the menu this data is transferred from Reset Data location to the Last Power data location in the NVM. That means the Last Power Memory Data is overwritten by the Reset data last Power memory and Reset data is now the same. 3. Factory fixed data. Fixed data is held in the ROM code of the micro processor (ROM can't be changed)

16	Save actual Last Power Memory data at Reset Data location )The previous Reset data is overwritten)
15/16	With these two functions, it is possible to preset user defined Reset values (just TT16) or to preset factory defined Reset values (first TT15 then TT16)
17	This function presets the Labels for the AV sources: AV1, RGB, AV2, YC2, AV3, YC3, AV4, YC4.
18	Text possible On/Off selection of Text (toggle function)
19	Direct access to Stereo Separation With cursor Up/Down the Stereo separation can be adjusted (w/o OSD, Menu display)
20	see TT10
21	Picture Rotation automatic function : (-4) -> (+4) -> 0
22	Operating Timer and Error Monitor display
23	Direct access to Sub Brightness Adjustment With cursor Up/Down the Sub BRT can be adjusted (w/o OSD, Menu display)
24	Direct access to Sub Color. With Cursor Up/Down the Sub Color can be adjusted.
25	Status menu display (SubController, CXA1840 Status, Main Controller.
26	Text Character selection (Char set 06 ->West Europe)
27	Text Character selection (Char set 38 ->East Europe)
28	Text Character selection (Char set 40 ->West Europe) US English
29	Text Character selection (Char set 55 ->West Europe) Turkish
30	see TT10
31	Text Character selection Char set Russian
32	Text Character selection Char set Greek
33	Programme catching test (Programme catching can be released by "Menu command")
34	Multi PIP adjustment. Direct access to 3.53 horizontal write position. With Cursor Up/Down the 353 H write Pos can be adjusted (w/o OSD, Menu display).
35	Multi PIP adjustment. Direct access to 4.43 horizontal write position. With Cursor Up/Down the 443 H write Pos can be adjusted (w/o OSD, Menu display).
36	Mtx Register 112 = intern display clock
37	Mtx Register 112 = extern display clock



38	Automatic selection of Screen Modes: (not for S (4:3) Models. 4:3 -> Zoom -> Zoom up -> Zoom Center -> Zoom down -> Zoom Center -> smart -> (if Pal+ signal) PALPLUS -> wide.
39	Reset Programme Table (NVM Bank 0ACH) The sorting of programmes in "Programme Sorting Menu" is reset.
40	see TT10
41	no function
42	no function
43	no function
44	no function
45	Set NVM to Protect mode (Bank 0AEH ADR. 0FFH write with 0)
46	IR Channel Presetting Mode. The channel presetting can be done by a Special IR transmitter Sequence: TT46 -> -- PR Number select display appears Select Prog. No from where the channel shall be stored. --> Now TV is waiting for IR sequence <-- --> If no IR transmission starts TT46 is released after 20 secs <-- !Note: When TT46 is active, any transmission will be interpreted as PROG data !
47	Direct access to Headphone Source Selection (Production use)
48	Direct access to AGC Adjustment (PWM) output.
49	The EEPROM Testbyte is erased. After Power OFF -> ON the complete EEPROM data (except channel tables) is overwritten. EEPROM Protection byte is set to 0 protection mode
50	see TT10
51	Strobo mode is activated.
52	no function.
53	Photo mode test (Photo mode can be released by "Menu command").
54	Direct access to Velocity Modulation VM (Production use)
55	MTX Slicer Control "Low Pass" (only Sys L)
56	MTX Slicer Control "No Compensation"
57	Megatext Service Menu ON
58	MTX Small Framing Code Window
59	MTX Wide Framing Code Window
60	see TT10

61	Set Dolby default values.
62	ACI disable.
63	ACI enable.
64	Reset all IIC Slave commands (Production use)
65	Reset stored error codes in NVM.
66	Reset for PALplus local controller and Sub Controller.
67	Direct access to Headphone Volume. With cursor Up/Down the Headphone Volume can be controlled (w/o OSD, menu display) (Production use)
68	ignore errors.
69	reset ignore errors (show errors)
70	see TT10
71	Picture Rotation Function On/Off toggle.
72	Dolby register setting menu.
73	Megatext RGB textlevel one step decreased (max 3 steps down starting from E0h) (Production use)
74	Megatext RGB textlevel one step decreased (max 1 steps down starting from E0h) (Production use)
75	reserved
76	CXD 2030 Default data setting.
77	CXD 2031 Default data setting
78	CXD 2032 Default data setting
79	CXD 2033 Default data setting
80	see TT10
81	CXD 2033D Default data setting
82	CXD 2035 Default data setting
83	CXA 1526 Default data setting
84	CXA 1839 Default data setting
85	CXA 1840 Default data setting
86	TDA 9145 Default data setting
87	TDA 9160 Default data setting
88	no function
89	no function
90	see TT10

#### 4-4. ERROR MONITOR AND DETECTION

In the menu 'Error Monitor', information about the error status of the set is displayed.

- Actual operating time
- Last five errors which are stored in the NVM.
- Actual error.

Error Monitor	
<b>Operating Time</b>	000355 h 35min
<b>Saved Errors</b>	
1. 40h=D1 Board	
2.. 60h=Q Board	
3. 70h=T Board	
4. 00h=no error occurred	
5. 00h=no error occurred	
<b>Actual Error</b>	
-> 00h=no error occurred	
to reset the NVM press 'TT' 65	

Additionally the Error Reader can be connected to the service connector to read out the actual errors.

The device check itself is active while the TV set is running out of stand-by mode. The devices are checked by sending an I<sup>2</sup>C start sequence and if there is no acknowledgement back from the devices it is regarded as an error. Each device is checked three times and if at every attempt there is no reply from the relevant device an error is given. To read the error codes press 'TT' followed by 22 on the commander to view the Error Monitor menu.

To reset the error codes in the NVM press 'TT' followed by 65 on the remote commander.

##### TABLE OF ERROR CODES

Error Code	Device	Description	Board
000h	no device	no error has occurred	-
001h	IIC 1 and IIC 2	IIC 1 and IIC 2 blockaded	-
002h	IIC 1	IIC1 is blockaded	-
003h	IIC 2	IIC 2 is blockaded	-
010h	A Board	A Board is defective	-
020h	A1 Board	A1 Board is defective	-
030h	BX-Board (B,B1,B2)	B, B1, or B2 Board is defective	-
040h	D1 Board	D1 Board defect	-
050h	J Board	J Board defect	-

Error Code	Device	Description	Board
060h	Q Board	Q Board defect	-
070h	T Board	T Board defect	-
011h	CXP85332	No response from the Subcontroller	A
012h	ST24C16	No response from the NVM	A
013h	SDA5273	No response from the Megatext IC	A
014h	TDA6812	No response from the Sound Processor	A
015h	SAA7283	No response from the Nicam Decoder	A
016h	UV916H	No response from the Main Tuner	A
017h	CXA1839Q	No response from the Video Controller	A
018h	CXA1840	No response from the CRT Driver	A
019h	RGB8443	No response from RGB/YUV	A
021h	TDA6622	Audio processor of the Center and Surround channel in the case of Dolby Prologic does not respond.	A1
022h	TDA7317	No response from the Equalizer.	A1
031h	CXD2030R	No response from the Digital Video Processor.	B/B1
032h	CXD2031R	No response from the Twin Picture IC.	B1
033h	CXD2032R	No response from the Digital Sampling Rate Converter.	B/B1
034h	CXD2033R	No response from the Picture in Picture IC.	B
035h	CXD2035R	No response from the Aspect Converter.	B/B1
036h	TDA9160	No response from the Chroma Decoder.	B/B1
037h	TDA9145	No response from the Chroma Decoder (on French models only.)	B2
041h	CXA1526	No response from the Convergence IC.	D1
051h	CXA1855	No response from the AV-Switch	J
061h	83C65202	No response from the Local Controller.	Q
071h	UV1316/TSA5526	No response from the Subtuner.	T
072h	CXA1875	No response from the Port Expander.	T

## 4-5. LED Error Blinking

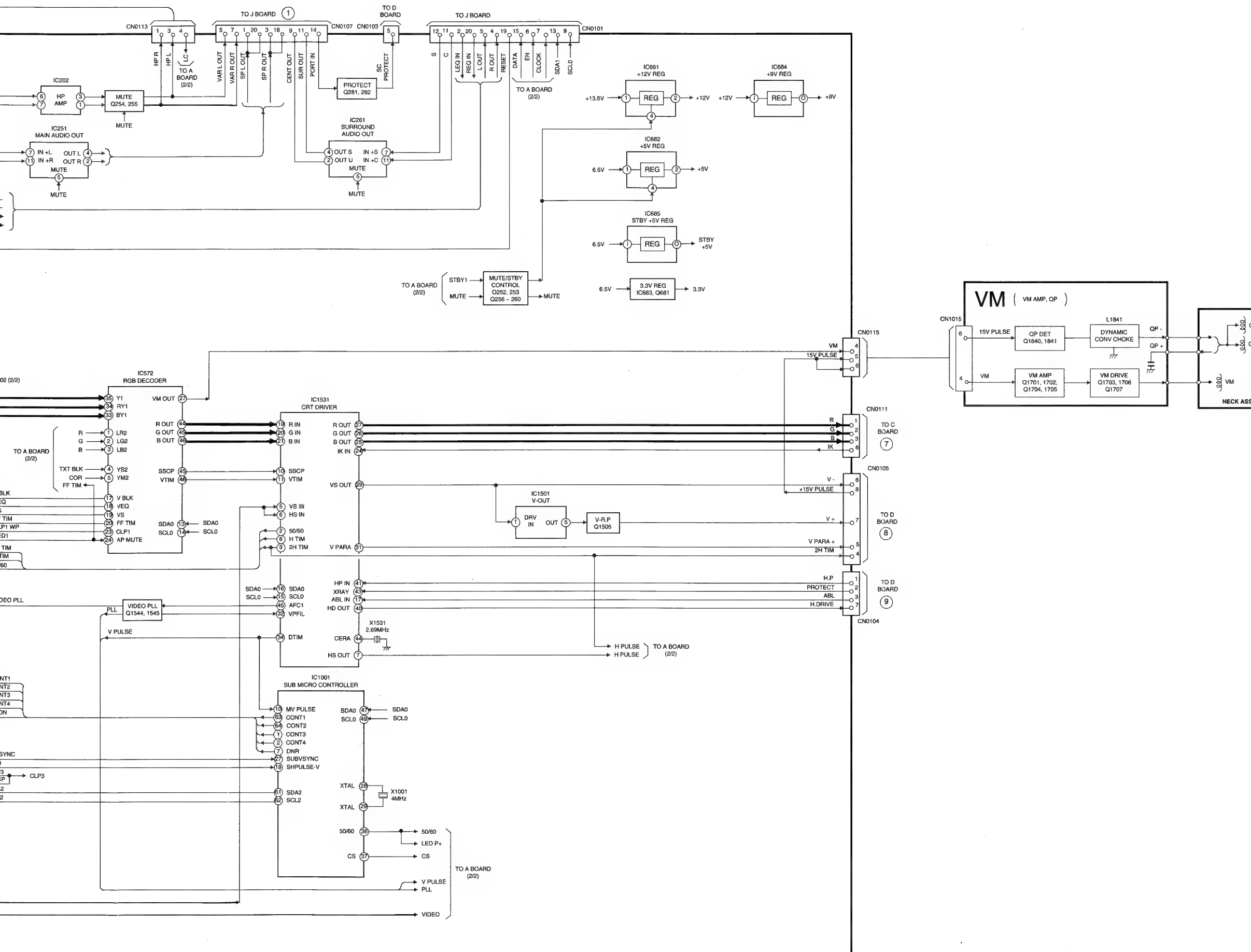
In addition to the Error Monitor facility there is an additional error indicator which indicates the most important errors also in the case of IIC error and Megatext error in opposition to the error monitor.

The error is recorded by counting the number of times that LED B blinks. This facility also works while in stand-by mode.

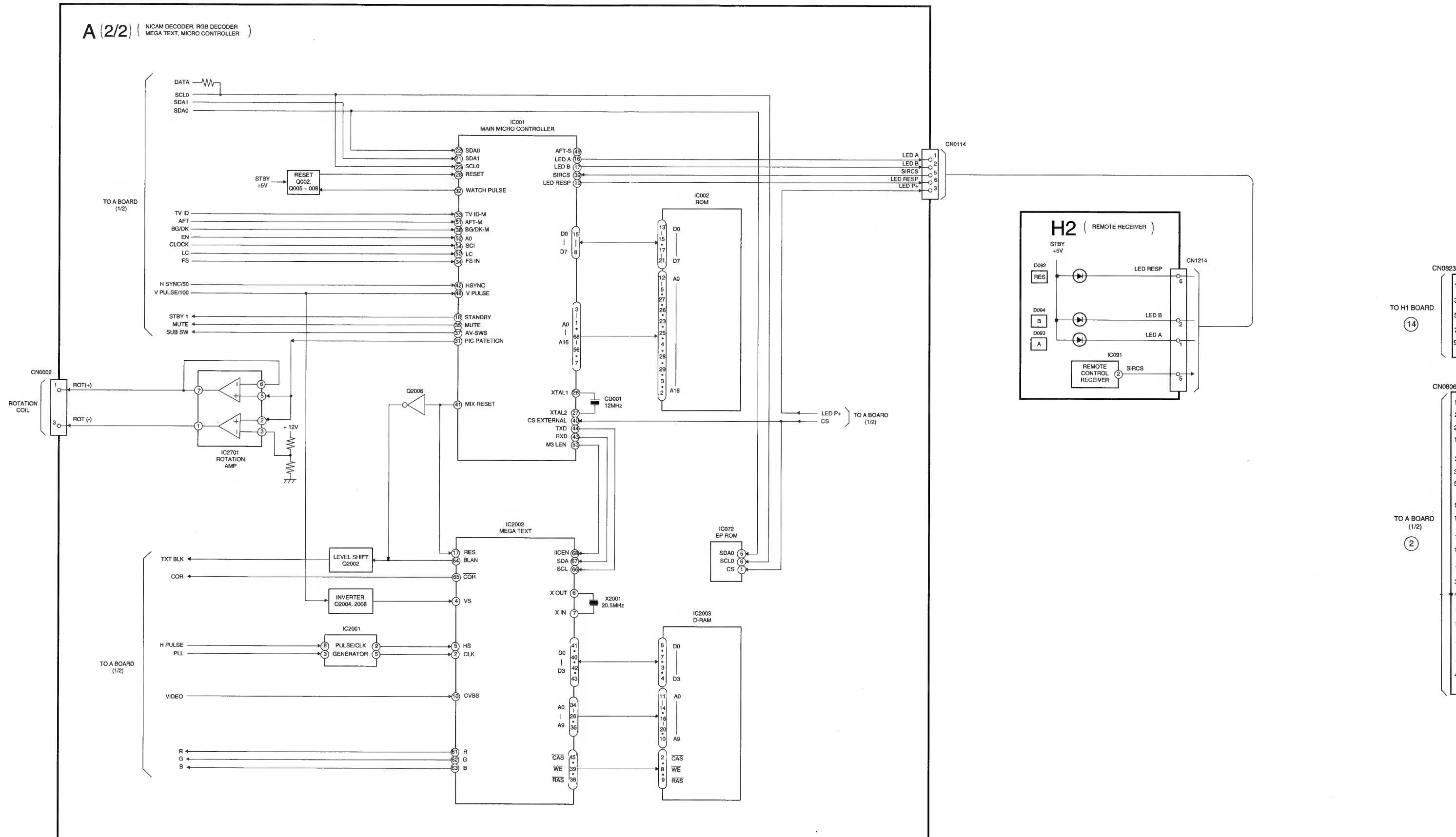
### LED Error Code.

Error	number of LED B blinking	Description	Board
0	1	general IIC error	-
1	2	ST24C16 NVM error	A
2	3	CXP85332 subcontroller error	A
3	4	CXD2030R error of Digital Video Processor	B/B1
4	5	CXD2032R error of Digital Sampling Rate Converter	B/B1
5	6	CXD2035R error of Aspect Converter	B/B1
6	7	TDA1839 error of Video Controller	A
7	8	TDA1840 error of CRT Driver	A
8	9	CXA1855 error of AV switch	J
9	11	SDA5273 error of Megatext	A
10	12	TDA6812 error of Sound Processor	A
11	16	V-Protection (In this case the TV set is switched of immediately)	-

**KV-S295:**[illegible]



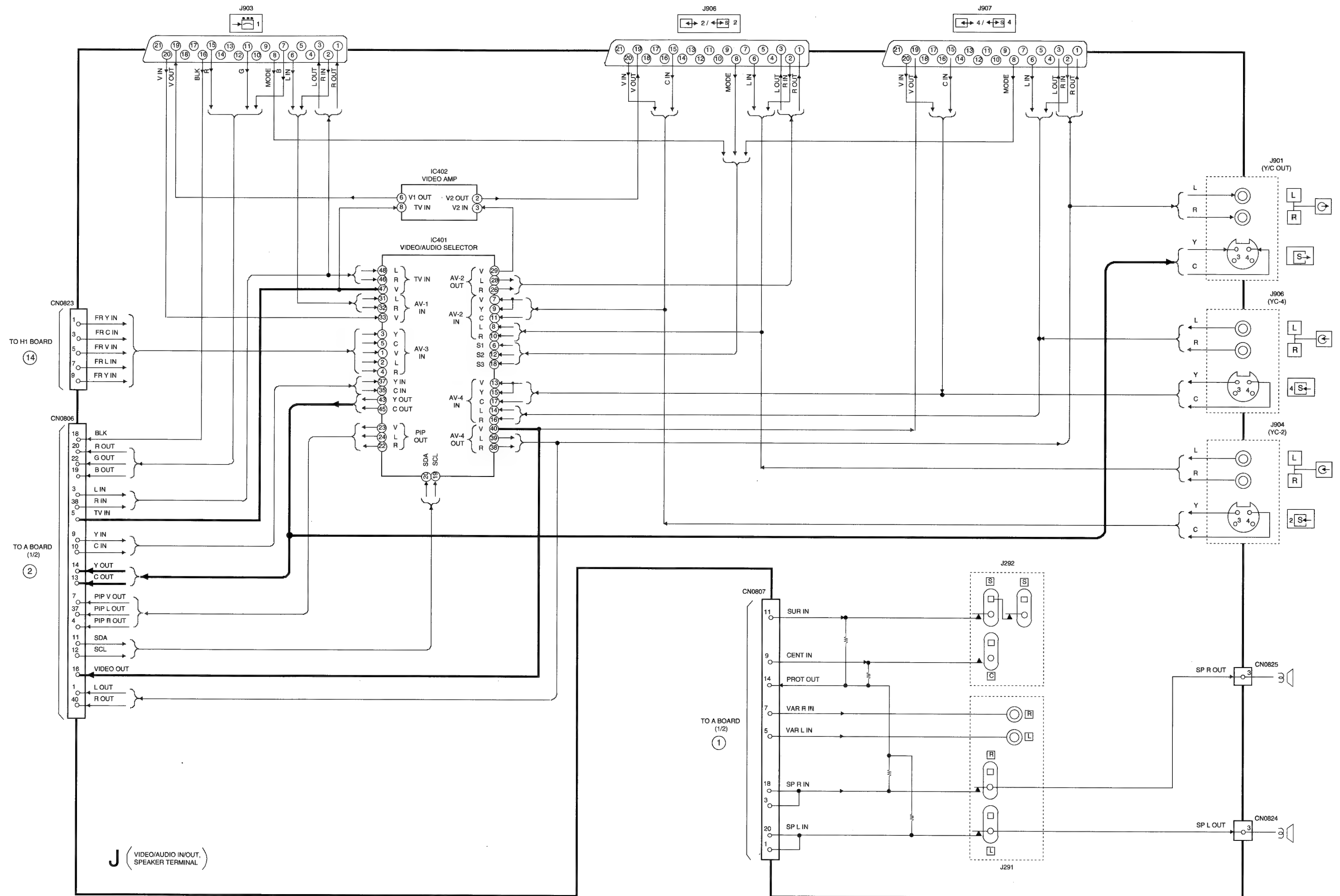
## BLOCK DIAGRAM (2)



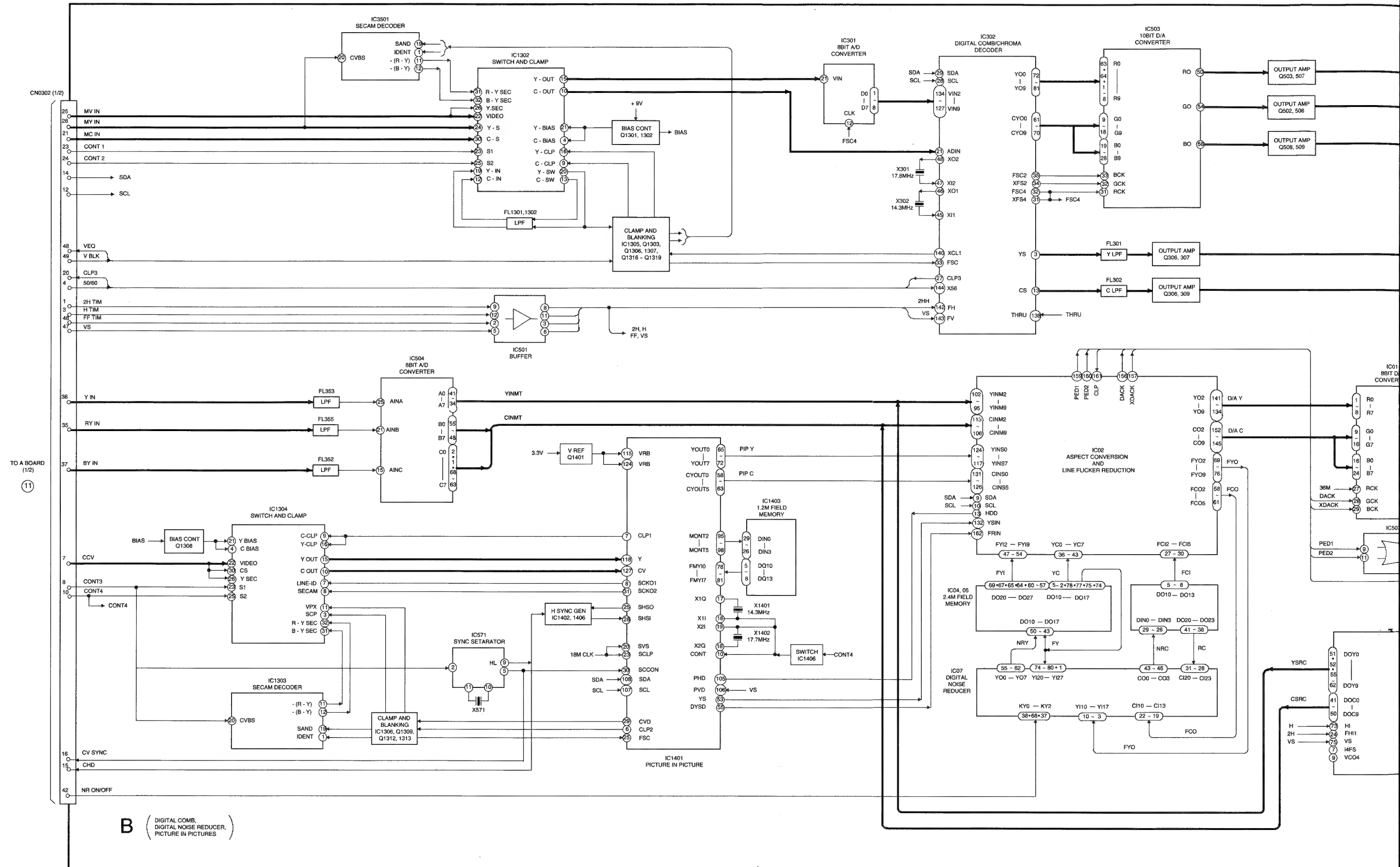
# BLOCK DIAGRAM (3)

KV-S295

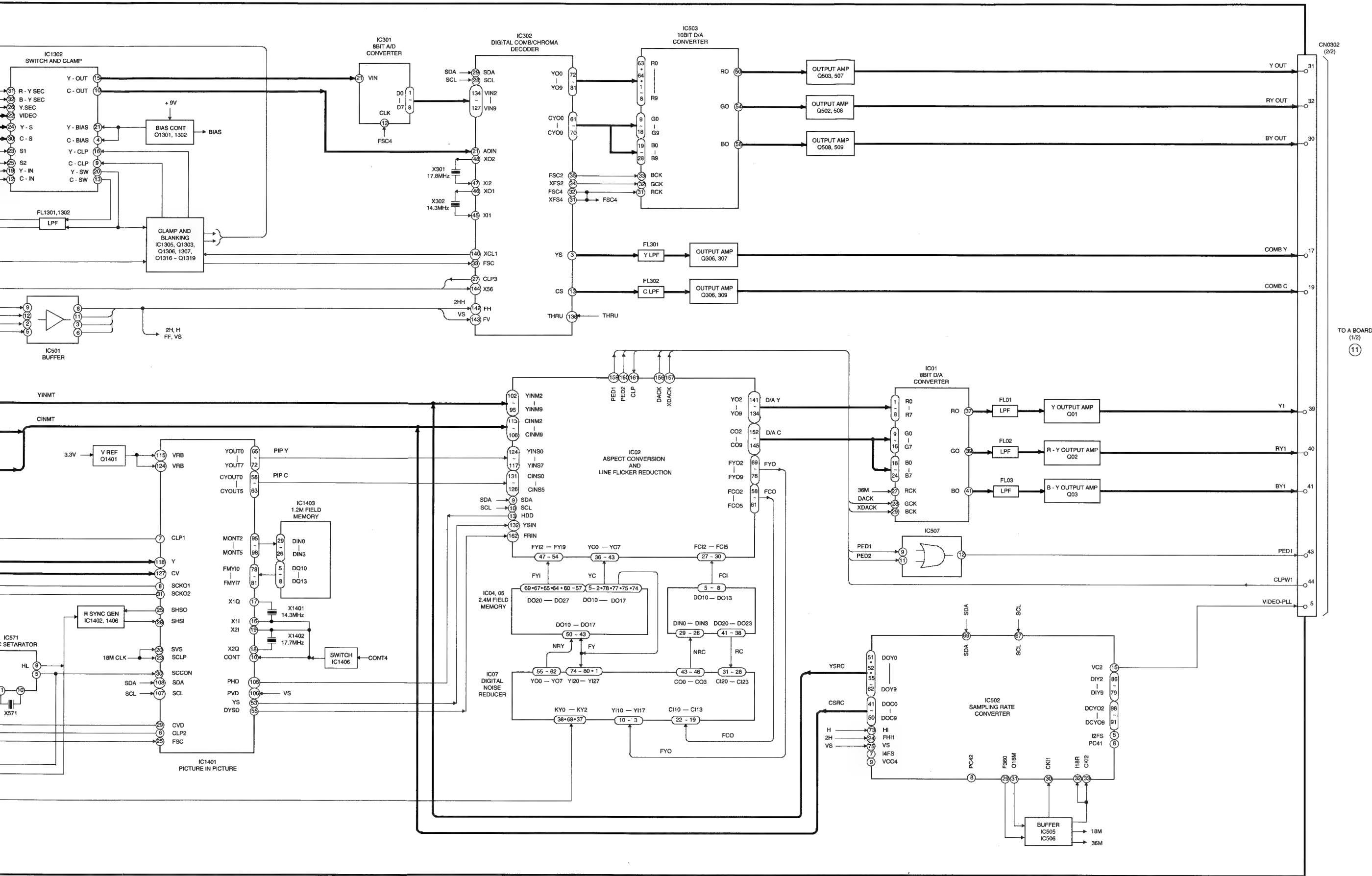
KV-S295

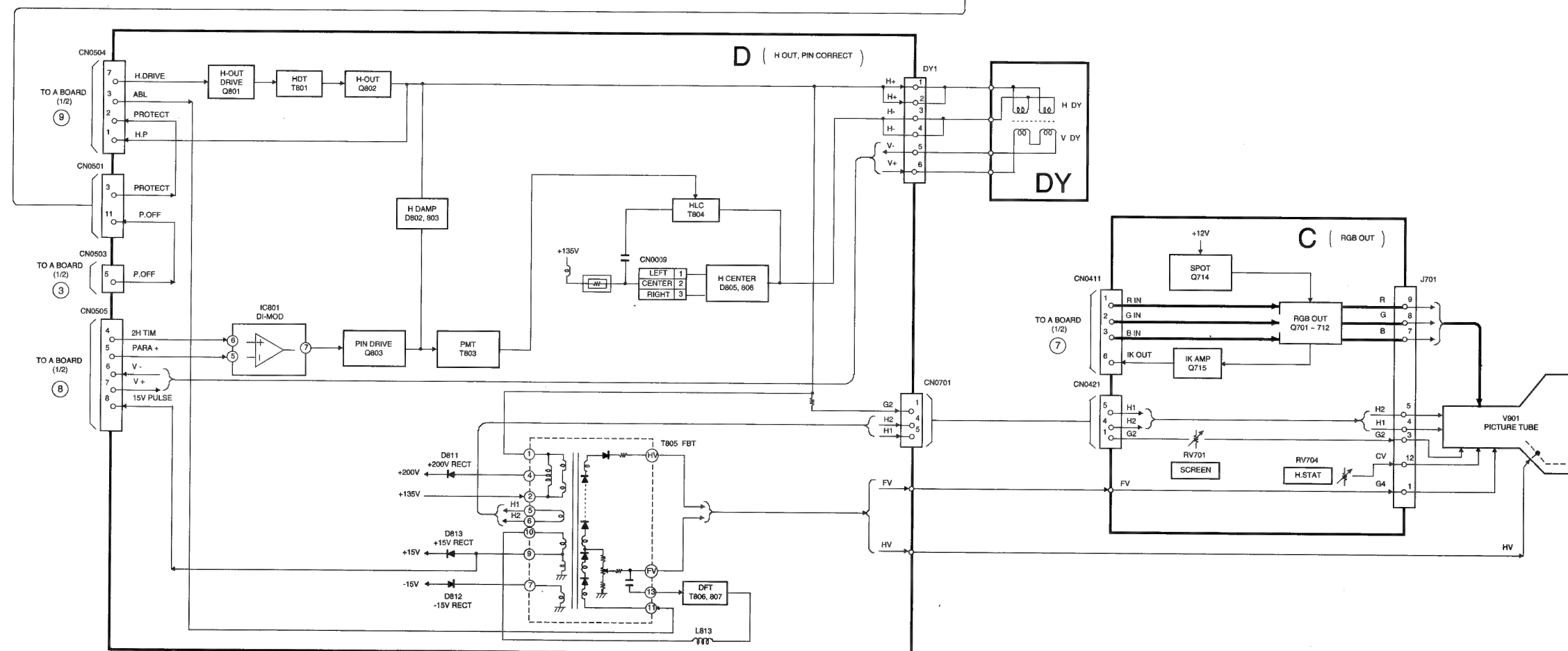


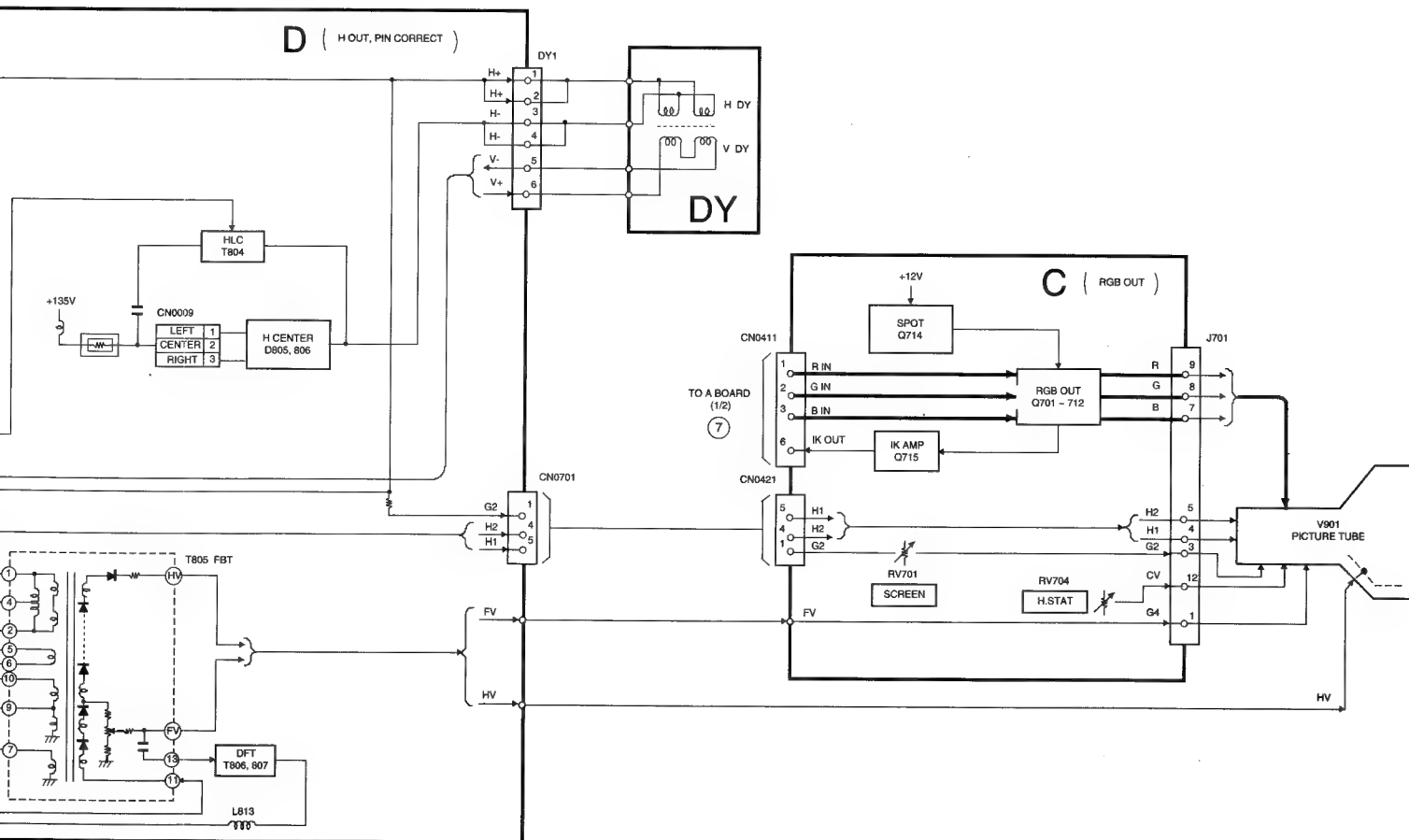
## BLOCK DIAGRAM (4)



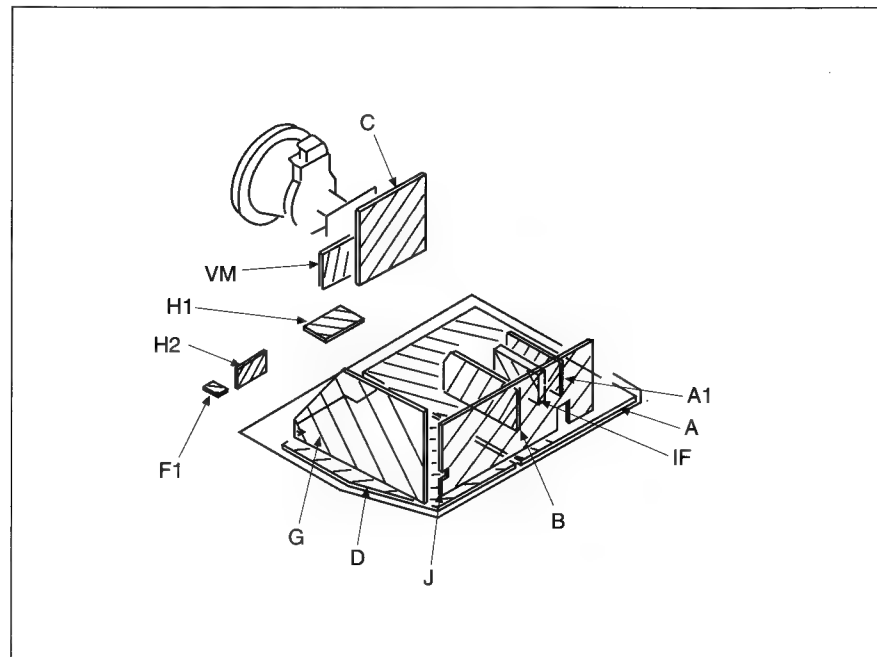








## 5-2. CIRCUIT BOARDS LOCATION



## 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

## Note :

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.  $\text{k}\Omega = 1000\Omega$ ,  $\text{M}\Omega = 1000\text{K}\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm  
Rating electrical power  $\frac{1}{4}$  W

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth - ground.
- : earth - chassis.
- : no mounted.

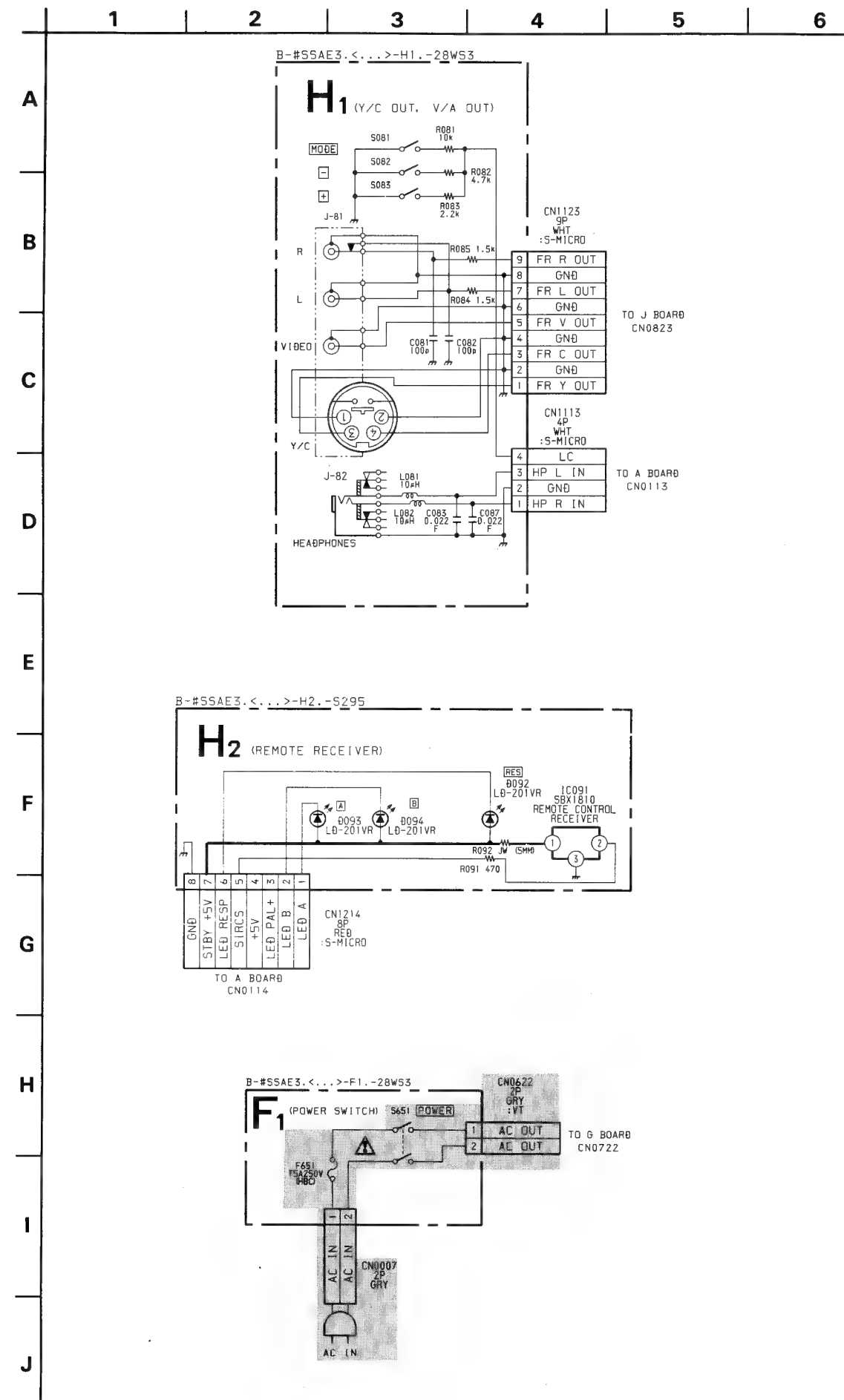
**Note :** The components identified by shading and marked are critical for safety. Replace only with the part number specified.

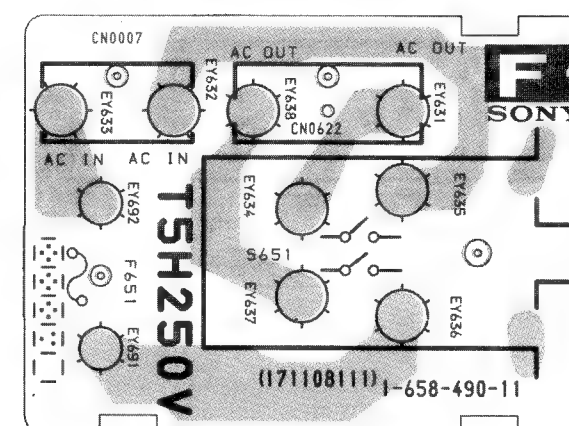
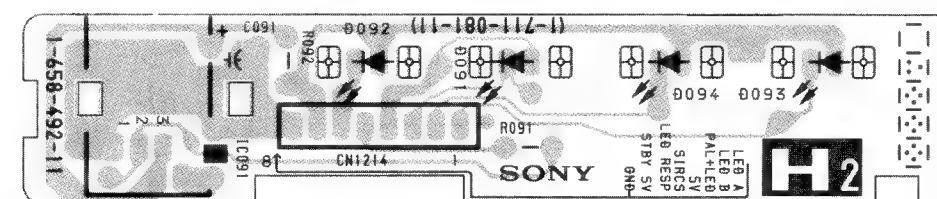
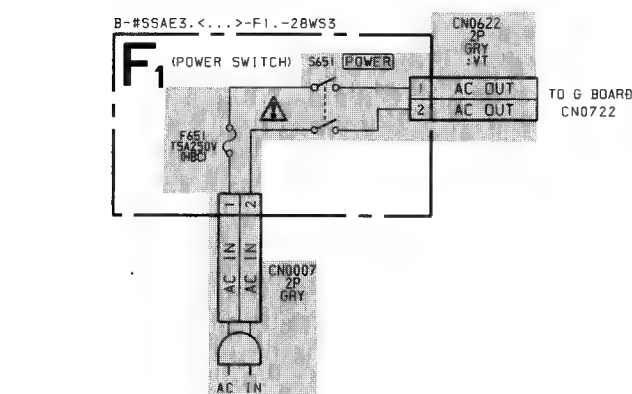
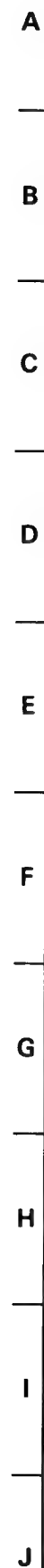
**Note :** Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

## Reference information

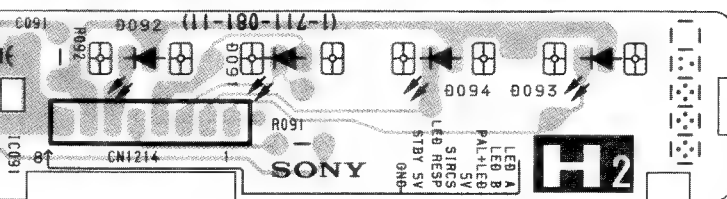
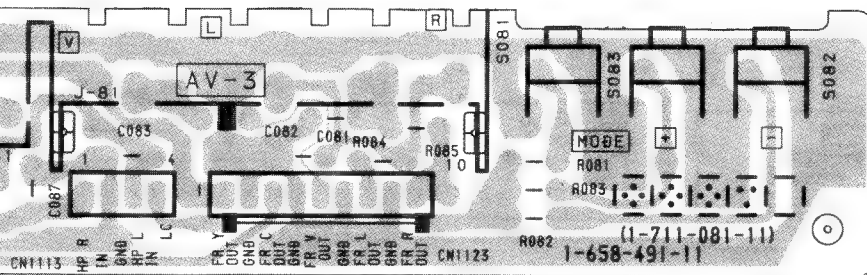
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
COIL	:	ADJUSTABLE RESISTOR
	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- Readings are taken with a colour-bar signal input.
- Readings are taken with 10M $\Omega$  digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

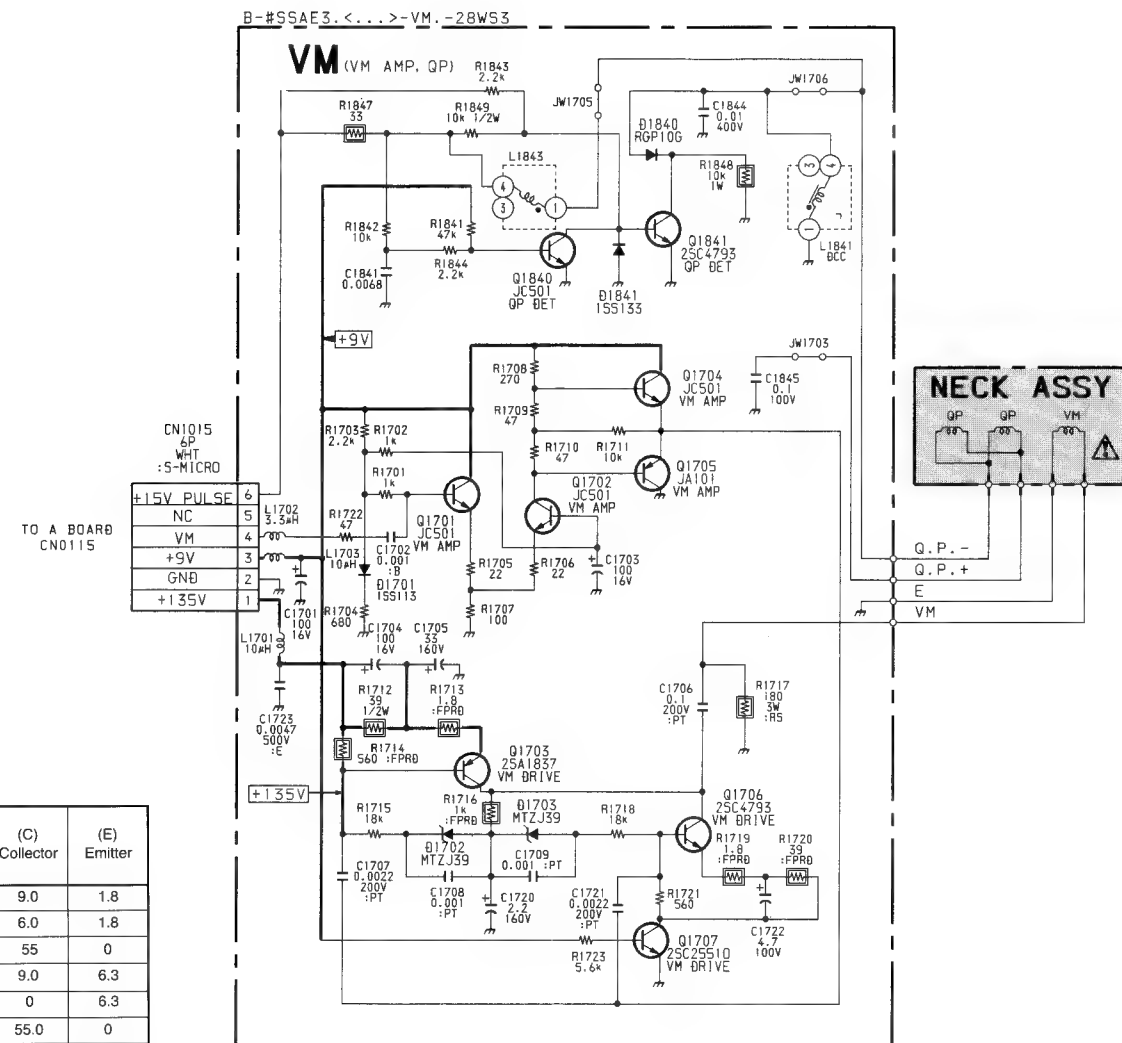
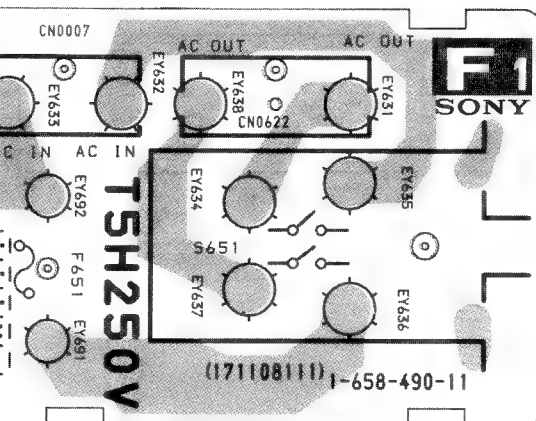




**2** [REMOTE RECEIVER] **F1** [POWER SWITCH] **VM** [VM AMP, QP]

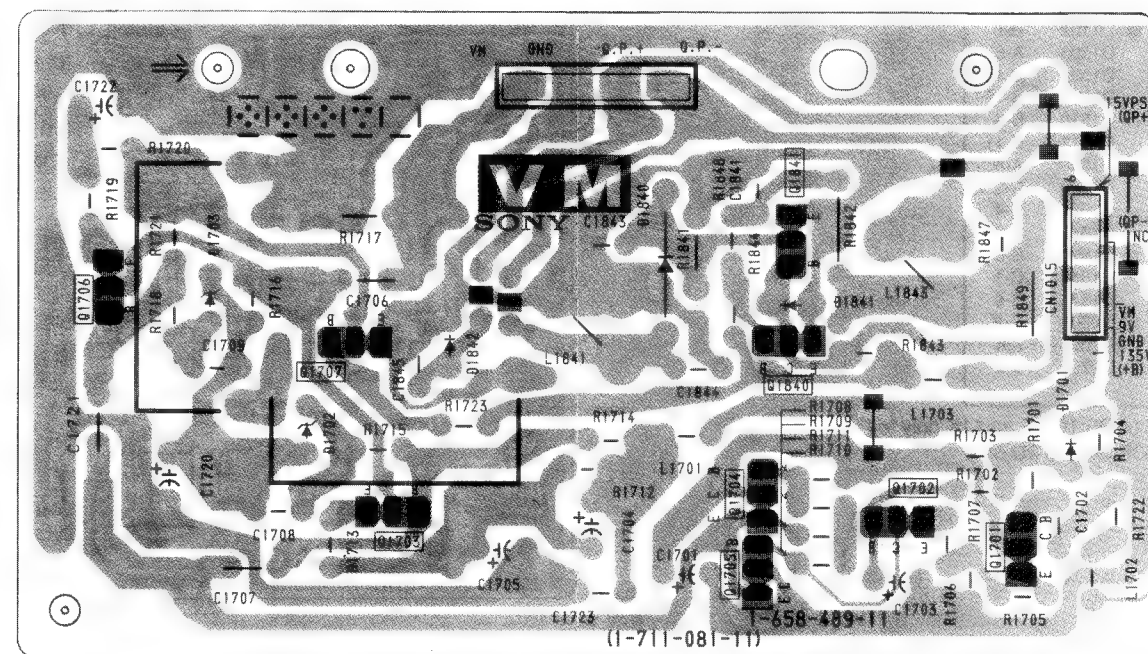


## F1 Board —



Pin No.	(B)	(C)	(E)
Ref.No.	Base	Collector	Emitter
Q1701	2.5	9.0	1.8
Q1702	2.5	6.0	1.8
Q1703	135.0	55	0
Q1704	6.7	9.0	6.3
Q1705	6.0	0	6.3
Q1706	0.6	55.0	0
Q1707	0.7	0	0
Q1840	0	0	0
Q1841	0	0.2	0

— VM Board —





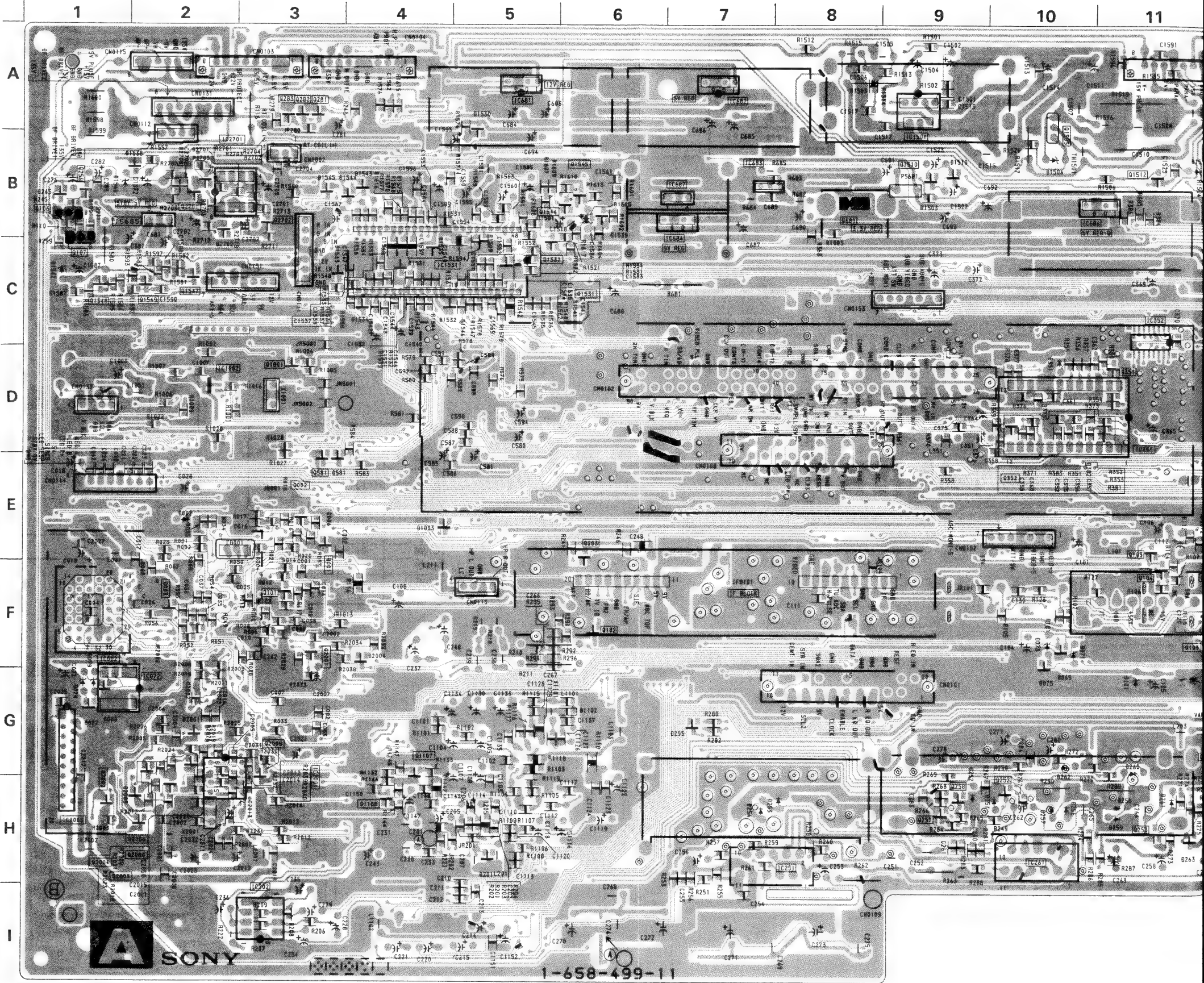
**A** RGB DECODER, CRT DRIVER, NICAM DECODER,  
MEGA TEXT, MICRO CONTROLLER

**A BOARD**

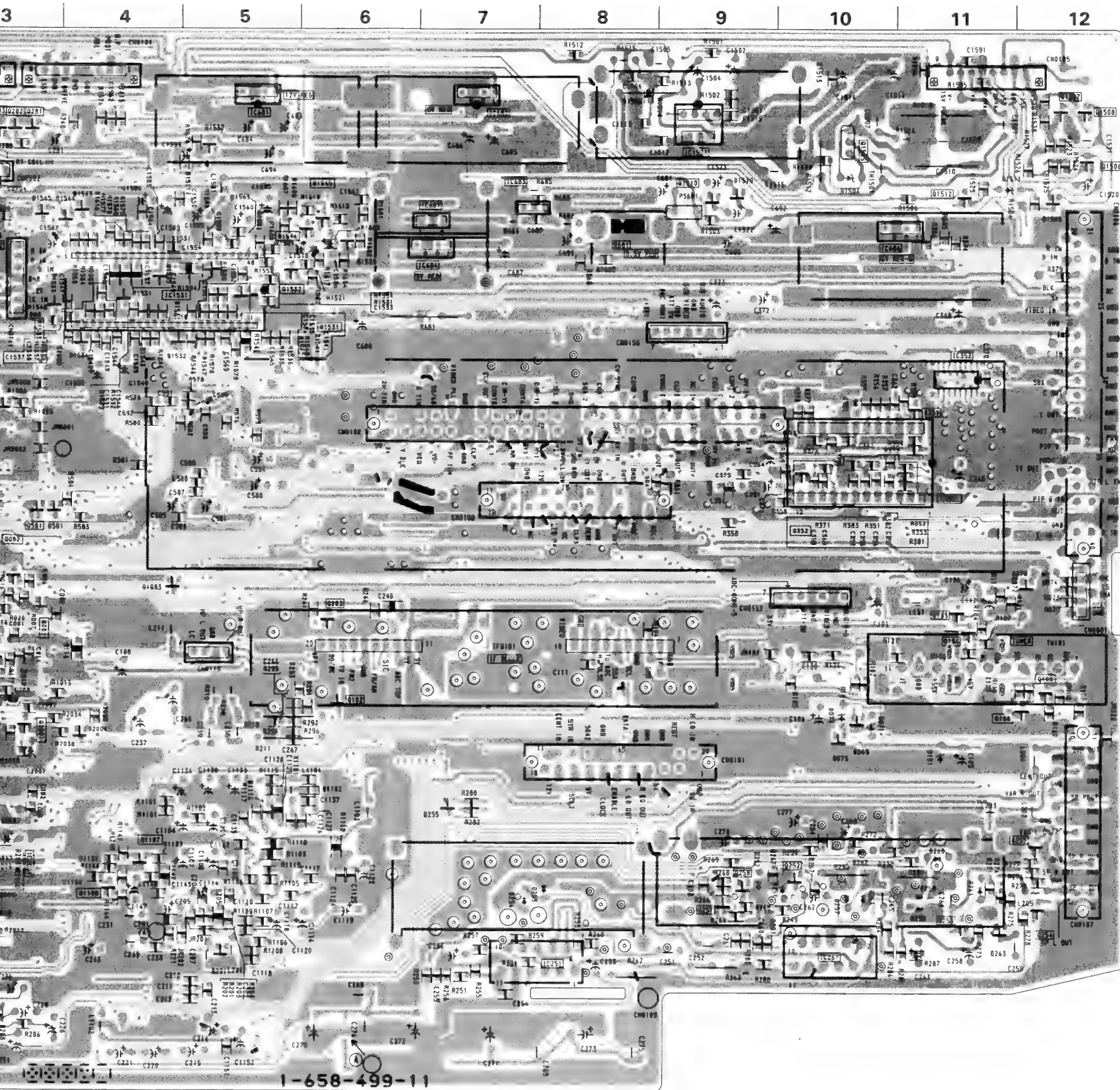
IC		
IC001	F-23	Q1532 C-5
IC002	F-1	Q1533 C-20
IC072	F-2	Q1545 B-6
IC201	H-21	Q1547 C-2
IC202	H-3	Q1548 C-1
IC251	H-8	Q1549 C-2
IC261	H-10	Q2001 F-3
IC351	D-11	Q2002 G-1
IC572	D-20	Q2004 H-1
IC681	A-5	Q2005 G-3
IC682	A-7	Q2006 H-2
IC683	B-7	Q2008 H-2
IC684	B-7	Q2701 B-2
IC685	B-1	
IC1001	D-23	
IC1101	H-19	
IC1501	A-9	
IC1531	C-4	
IC2001	G-3	
IC2002	G-24	
IC2003	H-1	
IC2701	B-2	
DIODE		
	D001	E-3
	D003	E-23
	D068	F-5
	D069	F-10
	D071	F-10
	D073	F-10
	D075	F-10
	D077	G-1
	D078	G-1
	D079	F-1
	D101	F-11
	D201	H-5
	D251	H-9
	D252	G-9
	D253	H-7
	D254	H-7
	D255	G-7
	D256	H-10
	D257	H-10
	D258	H-11
	D259	H-11
	D260	G-11
	D261	H-11
	D262	G-10
	D263	H-11
	D264	F-5
	D351	D-10
	D581	F-5
	D1001	F-5
	D1002	D-23
	D1003	E-4
	D1101	G-19
	D1102	G-6
	D1503	A-8
	D1504	B-10
	D1505	B-12
	D1510	B-9
	D1511	B-11
	D1530	A-5
	D1533	C-3
	D1534	C-4
	D1536	A-21
	D1539	B-6
	D1542	C-1
	D1543	B-4
	D2001	G-2
	D2004	F-4
	D2701	B-2
TRANSISTOR		
Q002	E-3	
Q005	E-23	
Q006	E-22	
Q007	E-22	
Q008	E-22	
Q102	F-6	
Q103	F-12	
Q106	B-1	
Q107	C-1	
Q203	E-6	
Q252	G-10	
Q253	H-11	
Q254	H-12	
Q255	G-12	
Q256	B-1	
Q257	H-9	
Q258	G-9	
Q259	H-11	
Q260	G-3	
Q281	A-3	
Q282	A-3	
Q351	D-11	
Q352	E-10	
Q371	G-3	
Q381	G-3	
Q681	B-8	
Q1001	D-3	
Q1105	H-20	
Q1106	I-20	
Q1107	G-4	
Q1108	H-4	
Q1505	B-10	
Q1506	B-12	
Q1507	A-12	
Q1508	A-12	
Q1510	B-9	
Q1511	B-14	
Q1512	B-11	
Q1531	C-6	

○ mark : KV-S2951A,3B,1D,3E and 1K only  
● mark : KV-S2953B,3E and 2U only

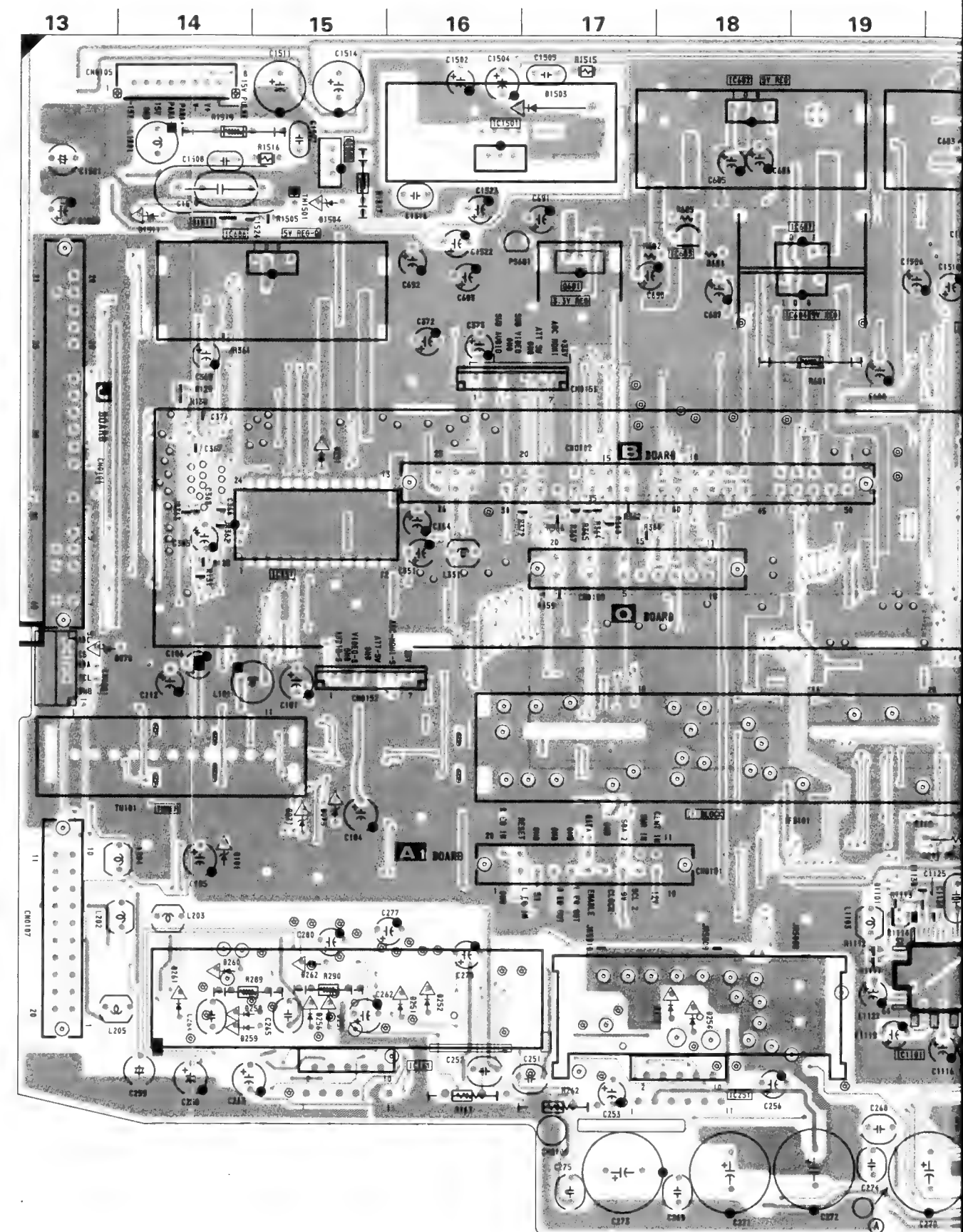
— A Board — <Conductor Side>





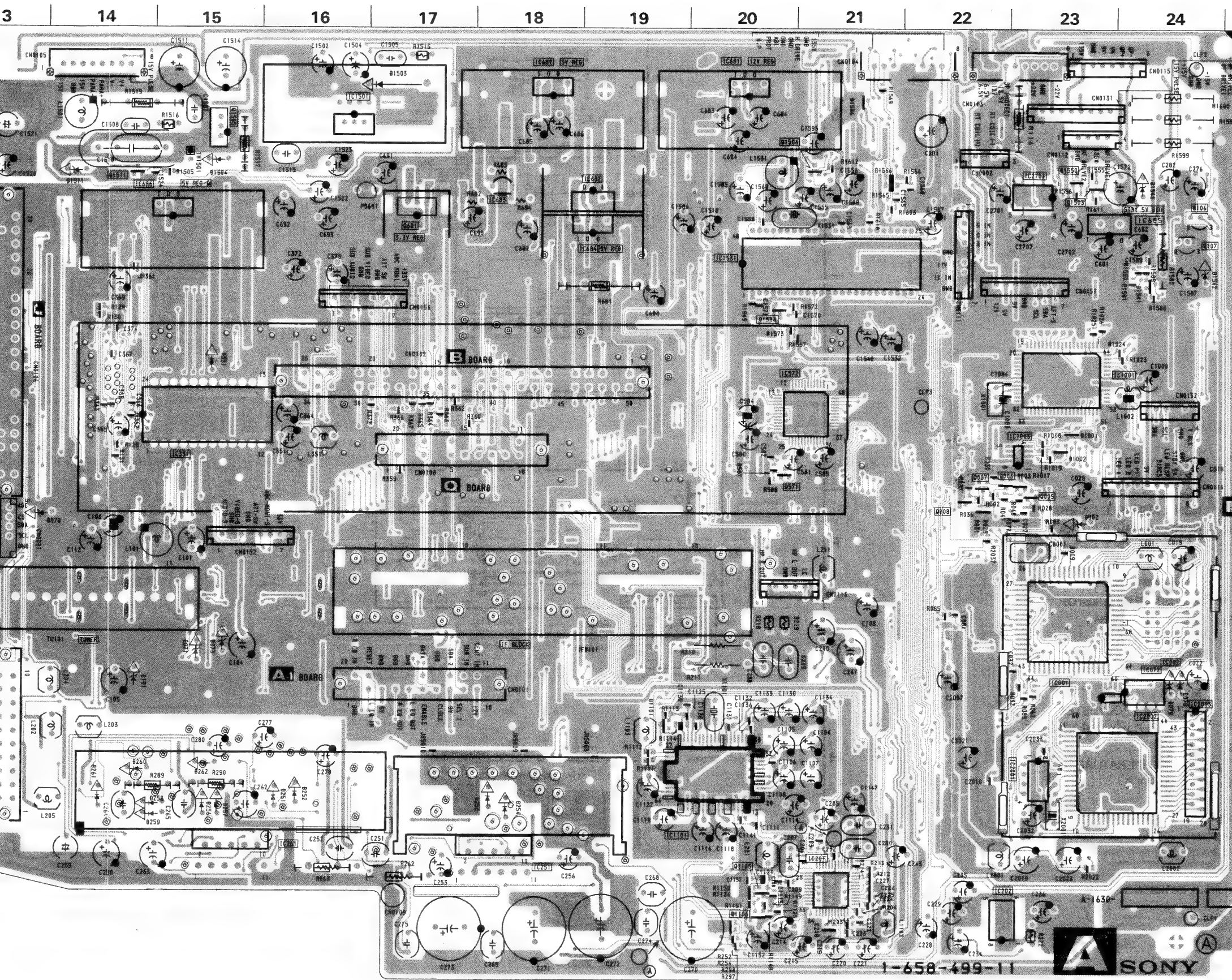


— A Board — &lt;Component Side&gt;



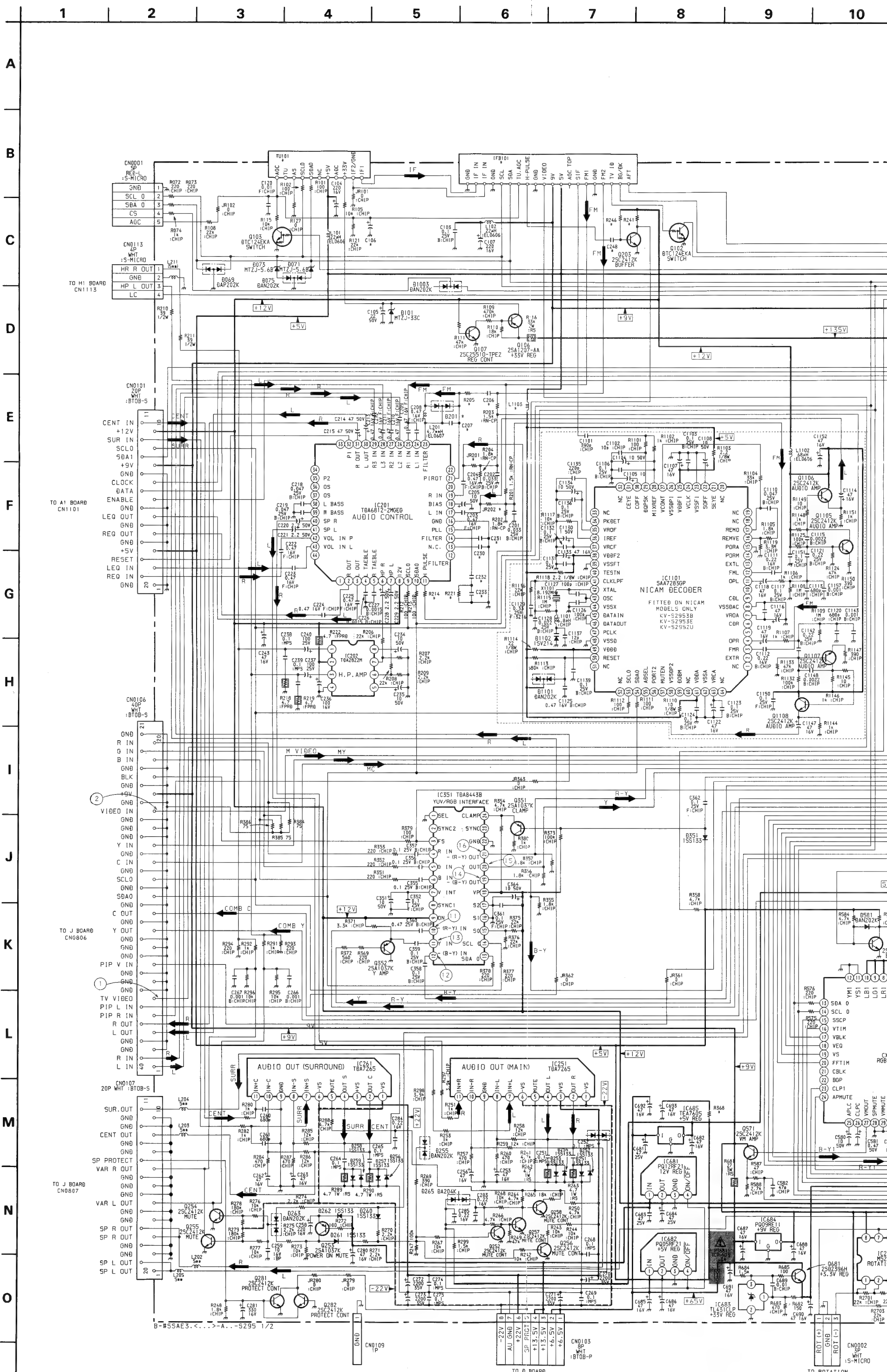


Board — &lt;Component Side&gt;



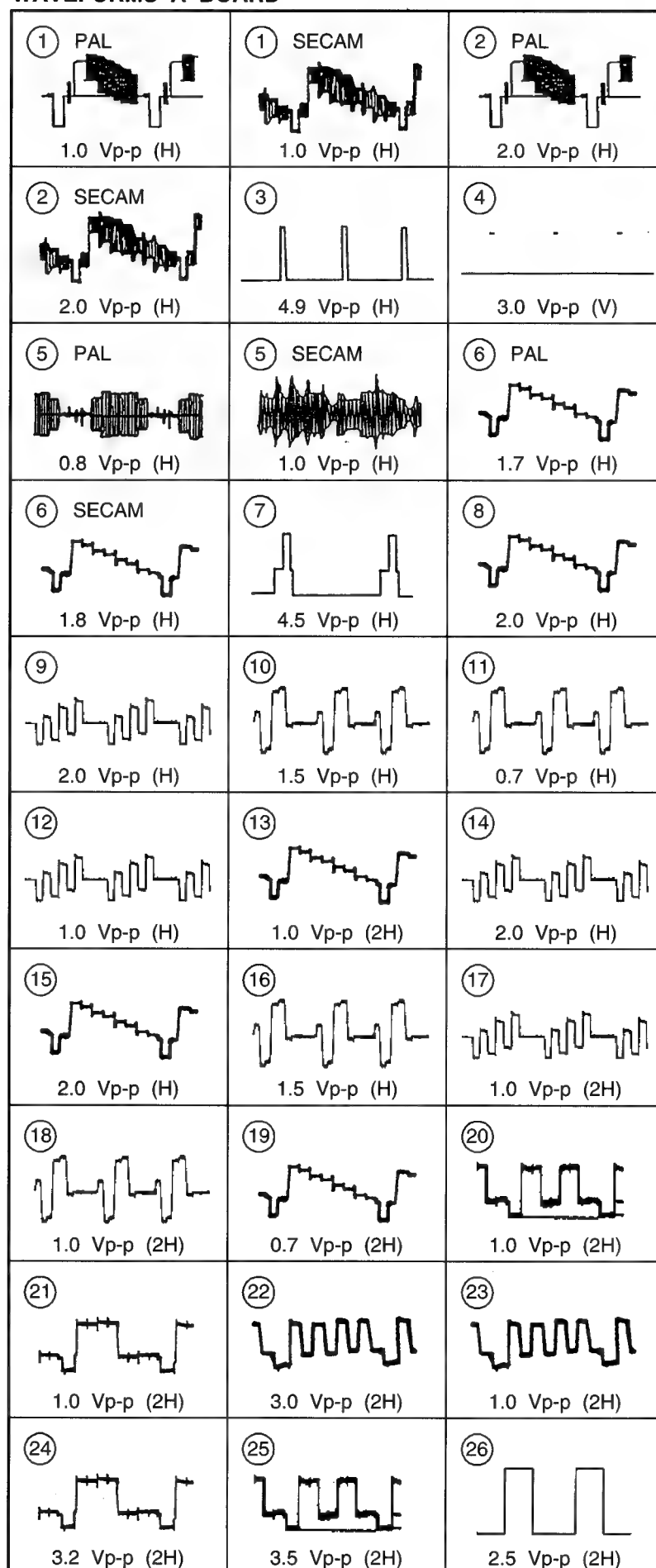
A BOARD \* MARK

Ref. No.	S2951A	S2953B	S2951D	S2953E	S2951K	S2952U
C106	4.7MF 50V	100MF 16V	4.7MF 50V	4.7MF 50V	4.7MF 50V	4.7MF 50V
C206	0.0022MF	0.0022MF	0.0022MF	0.0022MF	0.0022MF	-
C207	0.0018MF	0.0018MF	0.0018MF	0.0018MF	0.0018MF	-
C230	1MF	1MF	1MF	1MF	1MF	-
C231	1MF	1MF	1MF	1MF	1MF	-
C232	0.0033MF	0.0033MF	0.0033MF	0.0033MF	0.0033MF	-
C233	680P	680P	680P	680P	680P	-
C248	150P	150P	150P	150P	150P	-
D201	DA204K	DA204K	DA204K	DA204K	DA204K	-
IFB101	IFH-389WE	IFH-389FX	IFH-389WE	IFH-389WE	IFH-389EE	IFH-389GB
L1103	-	68UH	-	68UH	-	68UH
JR201	0: CHIP	-	0: CHIP	-	0: CHIP	-
JR202	0: CHIP	-	0: CHIP	-	0: CHIP	-
Q203	2SC2412K	2SC2412K	2SC2412K	2SC2412K	2SC2412K	-
R205	5.6K	5.6K	5.6K	5.6K	5.6K	-
R214	100	100	100	100	100	-
R221	56K	56K	56K	56K	56K	-
R241	4.7K	4.7K	4.7K	4.7K	4.7K	-
R246	100K	100K	100K	100K	100K	-
R359	-	-	-	0: CHIP	0: CHIP	0: CHIP
R360	-	0: CHIP	-	-	-	-
R361	0: CHIP	-	0: CHIP	0: CHIP	0: CHIP	0: CHIP
R362	-	0: CHIP	-	-	-	-
R364	0: CHIP	-	0: CHIP	0: CHIP	0: CHIP	0: CHIP
R365	0: CHIP	-	0: CHIP	0: CHIP	0: CHIP	0: CHIP
R366	0: CHIP	-	0: CHIP	0: CHIP	0: CHIP	0: CHIP
R367	-	0: CHIP	-	-	-	-
R368	-	0: CHIP	-	-	-	-
R1569	10K	10K	10K	10K	-	10K
R1572	10K	10K	10K	10K	-	10K
R1579	2.2K	2.2K	2.2K	2.2K	-	2.2K
TU101	UV1316	UV1316	UV1316	UV1316	UV1316	U1344

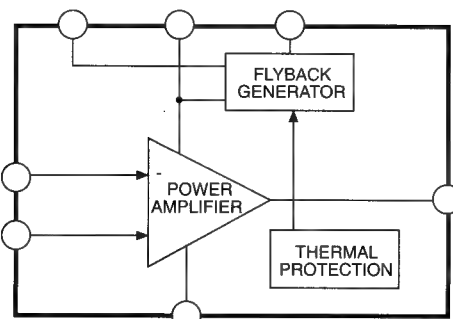




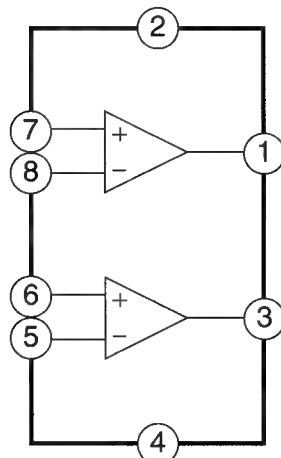




A Board IC1501 STV9379S



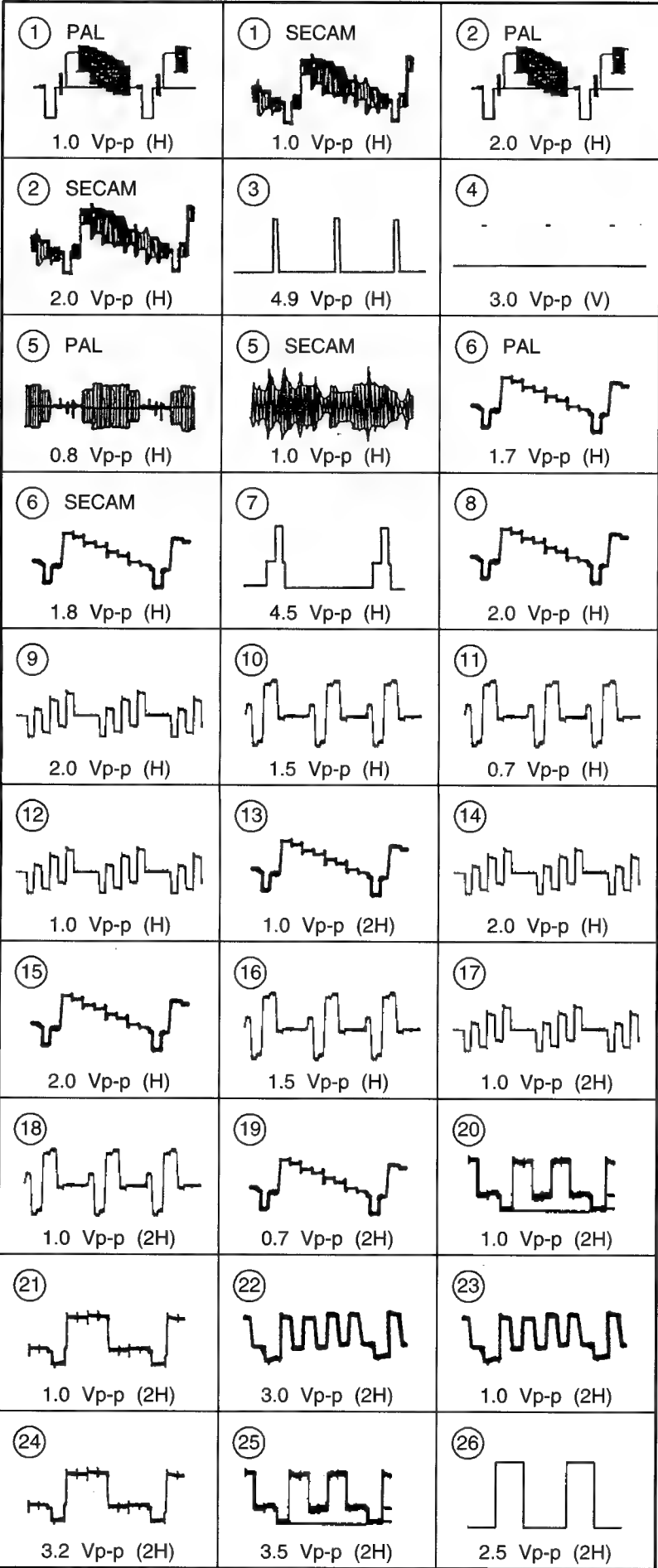
A Board IC202 TDA2822M



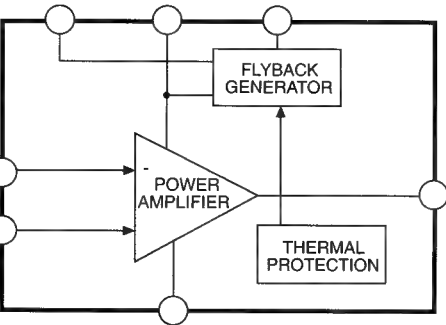
Ref. No.	Pin No.
IC1001	1
	2
	3
	4
	5-6
	7
	8-9
	10
	11
	12
	13-18
	19
	20-25
	26
	27
	28
	29
	30
	31-54
	55
	56
	57
	58
	59-60
	61
	62
	63
	64
IC1101	1-2
	3
	4
	5-6
	7
	8
	9-10
	11
	12
	13-14
	15
	16
	17
	18-21
	22
	23
	24
	25
	26
	27-30
	31-33
	34
	35-37
	38
	39
	40
	41
	42
	43

Ref. No.	Pin No.
IC684	1
	2
	3
IC685	1
	2
	3
IC686	1
	2
	3
	4
IC572	1-3
	6
	7
	8-10
	11-12
	13-14
	15
	16
	17
	18-20
	21-22
	23
	25
	26
	28-30
	31
	32
	33-35
	37-39
	41
	42
	44-45
	46
	47
	48

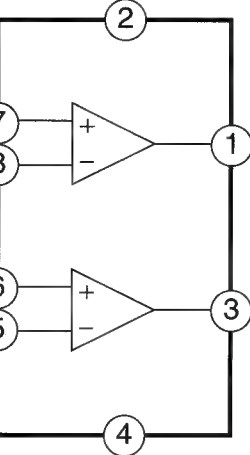
WAVEFORMS A BOARD



A Board IC1501 STV9379S



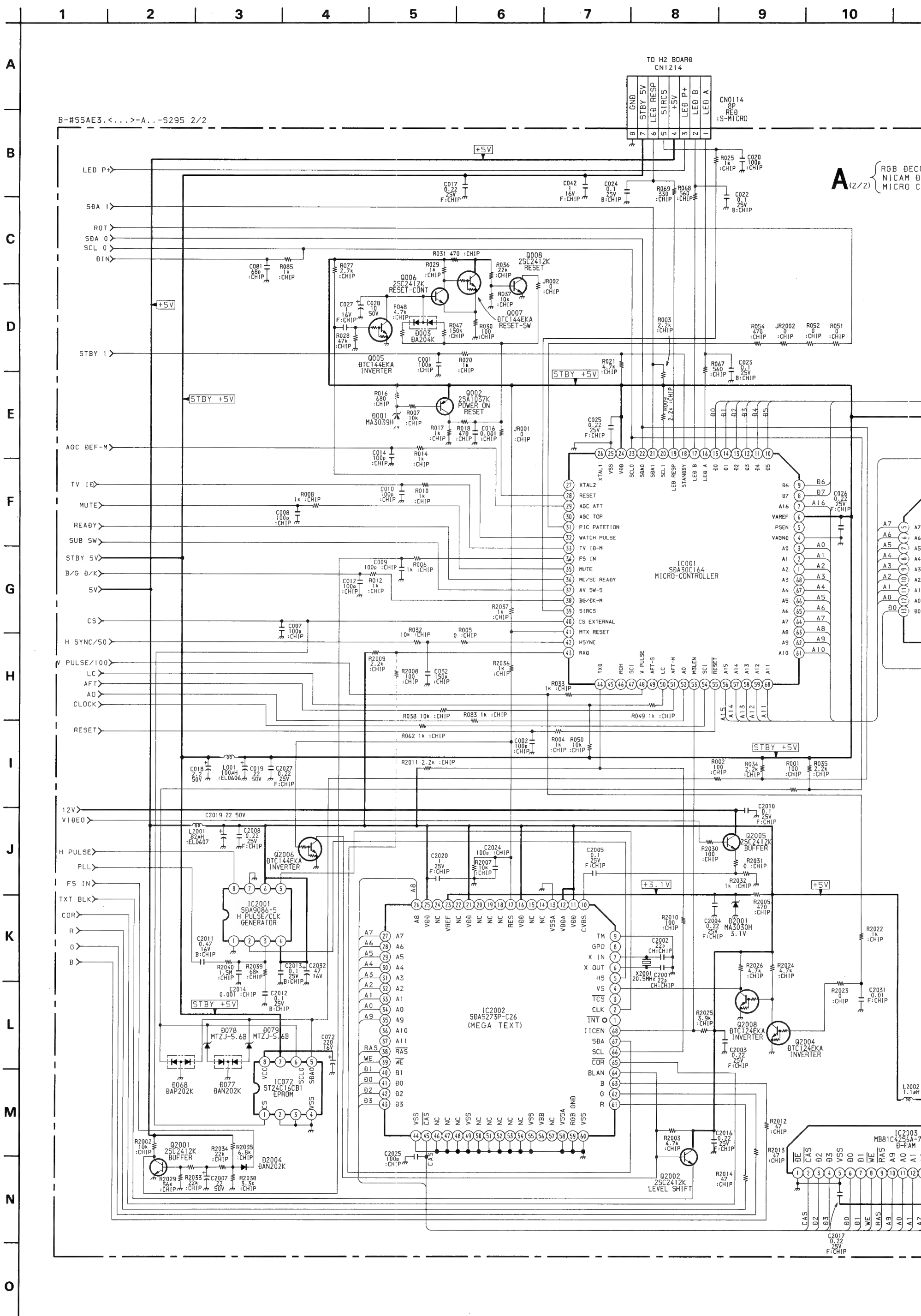
A Board IC202 TDA2822M

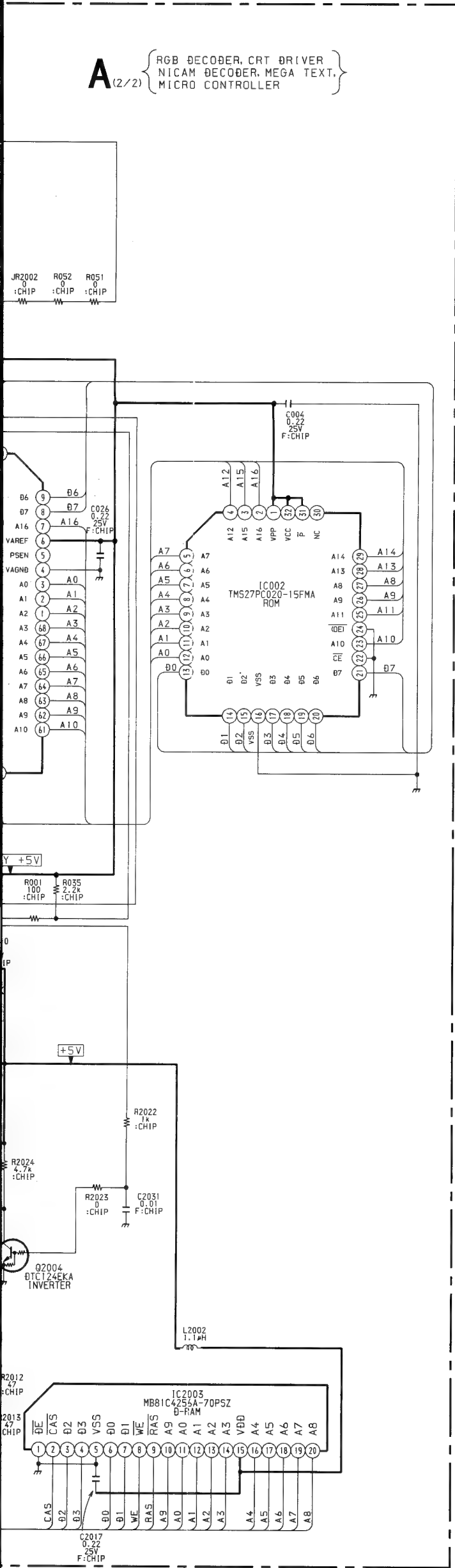


Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)
IC1001	1	0	IC201	44	GND	IC1501	5	3.6
	2	0		45-47	2.1		6	3.0
	3	5.0		48	GND		7	3.1
	4	4.0		49-50	4.4		8	1.7
	5-6	-		51-52	-		9	1.8
	7	0		53-54	4.0		10	0.8
	8-9	-		55-60	-		11	0.5
	10	0.2		61	4.4		12	GND
	11	-		62	GND		13	9.0
	12	1.5		63	2.2		14	0
	13-18	-		64	-		15	3.8
	19	1.0		1	0		16	4.0
	20-25	-		2-7	6.1		17	4.4
	26	GND		8	12.0		18	8.7
	27	2.0		9-10	4.0		19-21	3.6
	28	2.5		11	0.1		22	0.8
	29	2.5		12	0		23	2.4
	30	4.0		13-15	3.0		24	5.0
	31-54	-		16	0		25	2.1
	55	GND		17-19	6.1		26	2.2
	56	5.0		20	0		27	2.1
	57	5.0		21	6.1		28	8.0
	58	GND		22	0		29-32	4.0
	59-60	-		23-31	6.1		33	5.1
	61	6.3		32-35	0		34	0.2
	62	4.2		36-43	6.1		35	2.4
	63	0		44	0		36	9.0
	64	0		1	5.4		37	GND
IC1101	1-2	-	IC202	2	12.0	IC1501	38	0
	3	1.0		3	5.4		39	5.0
	4	2.2		4	GND		40	2.1
	5-6	-		5	0.5		41	2.2
	7	2.2		6-7	0		42	4.2
	8	0		8	0.5		43	0
	9-10	-	IC2701	1-3	4.4		44	-
	11	2.2		4.0	-		45-47	4.6
	12	1.0		5-7	-		48	4.4
	13-14	-		8.0	0	IC681	1	2.2
	15	GND		9.0	0.2		2	14.0
	16	2.2	IC1003	1-4	GND		3	-14.0
	17	4.0		5-6	5.0		4	-16.0
	18-21	-		7	GND		5	-1.4
	22	2.2		8	5.0		6	14.5
	23	0	IC251/261	1	-20.0		7	2.2
	24	-		2	0	IC682	1	13.3
	25	2.2		3	20.0		2	12.0
	26	-		4	0		3	GND
	27-30	2.1		5	10.0		4	2.3
	31-33	-		6	-20.0	IC683	1	5.7
	34	1.8		7-8	0		2	5.0
	35-37	2.1		9	GND		3	GND
	38	4.1		10-11	0		4	2.3
	39	GND	IC1531	1	3.7		1	2.4
	40	-		2	0.3		2	GND
	41	1.7		3	5.8		3	4.0
	42	3.1		4	GND	All Voltages are indicated in Volts DC		
	43	2.1						

Ref.No.	Pin No.	Voltage (V)
IC684	1	11.9
	2	GND
	3	9.0
IC685	1	5.8
	2	GND
	3	5.0
IC686	1	5.6
	2	5.0
	3	GND
	4	2.3
IC572	1-3	6.0
	6	9.0
	7	GND
	8-10	9.0
	11-12	GND
	13-14	4.0
	15	0.8
	16	0.6
	17	0.5
	18-20	0.3
	21-22	NC
	23	0.2
	25	4.0
	26	4.7
	28-30	GND
	31	9.0
	32	GND
	33-35	4.4
	37-39	GND
	41	2.5
	42	GND
	44-45	2.7
	46	2.6
	47	8.7
	48	NC

Ref.No.	Pin No.	(B) Base	(C) Collector	(E) Emitter
Q102	4.7	0	0	
Q103	0	1.7	0	
Q106	31.4	32.0	32.0	
Q107	0.5	0	0	
Q203	0.6	0.1	0	
Q251	0.6	0	0	
Q252	0	0.6	0	
Q253	13.4	-0.4	13.4	
Q254	-2.1	0	0	
Q255	-2.0	0	0	
Q256	-0.1	2.3	0	
Q257	0.6	0	0	
Q259	21.5	10.5	21.1	
Q260	0	21.5	0	
Q351	2.8	1.7	3.5	
Q352	1.8	0	2.5	
Q571	6.4	9.0	5.7	
Q581	0.6	0	0	
Q1001	0.3	0	1.0	
Q1105	3.0	5.6	2.4	
Q1107	3.0	5.8	2.4	
Q1108	5.8	11.8	5.2	
Q1502	0.4	9.0	-3.7	
Q1531	5.6	0	6.1	
Q1532	9.0	4.4	9.0	
Q1533	0.5	0.4	0	
Q1544	1.1	4.5	0.6	
Q1545	4.5	9.0	4.0	
Q1447	4.4	-9.0	5.0	
Q1548	6.4	9.0	5.7	
Q1549	0.9	-0.2	1.4	
Q1532	-1.2	3.0	-1.8	





Ref.No.	Pin No.	Voltage (V)
IC001	6	5.0
	16-17	3.7
	18	2.5
	19	3.8
	20-21	5.0
	22-23	4.0
	24	5.0
	26	2.1
	27	2.3
	28	4.7
	29	0
	30	4.8
	31	2.4
	32	1.6
	34	5.0
	36	5.0
	37	3.4
	38	3.3
	39-40	5.0
	41	0.1
	42	0.4
	43	5.0
	44	4.8
	48	0.3
	49	1.3
	50	5.0
	51	2.4
	52	5.0
	53	4.5
	54	5.0
	55	3.8
IC002	1	5.0
	31-32	5.0
IC2002	2	1.5
	4-5	0.1
	6-7	1.7
	10	0.8
	11-12	5.0
	16	5.0
	17	0.1
	21	5.0
	23	3.0
	25	5.0
	45	4.4
	65	0.6
	66-67	5.0
	68	4.5
IC2003	15	4.5

Pin No.	(B) Base	(C) Collector	(E) Emitter
Ref.No.			
Q002	4.2	4.7	4.8
Q005	-0.1	0	0
Q006	0	4.8	0.8
Q007	4.8	0.9	0.8
Q008	0.3	4.8	0
Q2001	0.3	5.0	0
Q2002	0	4.8	0
Q2004	0.3	4.0	0
Q2005	3.8	12.0	3.1
Q2006	0.1	0	0
Q2008	4.0	0.1	0

J BOARD

IC	
IC401	C-4
IC402	D-9
TRANSISTOR	
Q401	C-4
Q402	C-4
Q403	C-5
Q404	D-6
DIODE	
D401	B-5
D403	B-4
D405	B-4
D406	B-4
D407	B-4
D901	B-5
D902	B-6
D903	A-8
D904	A-9
D905	B-7
D906	A-7
D907	B-11
D908	E-11
D909	C-11
D910	C-11
D911	E-11
D913	B-9
D914	E-10
D915	C-8
D916	D-9
D917	D-8
D919	B-8
D920	D-6
D921	D-4
D922	D-5
D923	D-7
D924	D-10
D925	D-11
D926	D-10
D927	E-11
D928	B-11
D930	B-10
D931	A-7
D932	B-6

• : Pattern from the side which enables seeing the rear side.  
• : Pattern of the rear side.





(B) Base	(C) Collector	(E) Emitter
4.2	4.7	4.8
0.1	0	0
0	4.8	0.8
4.8	0.9	0.8
0.3	4.8	0
0.3	5.0	0
0	4.8	0
0.3	4.0	0
3.8	12.0	3.1
0.1	0	0
4.0	0.1	0

J BOARD

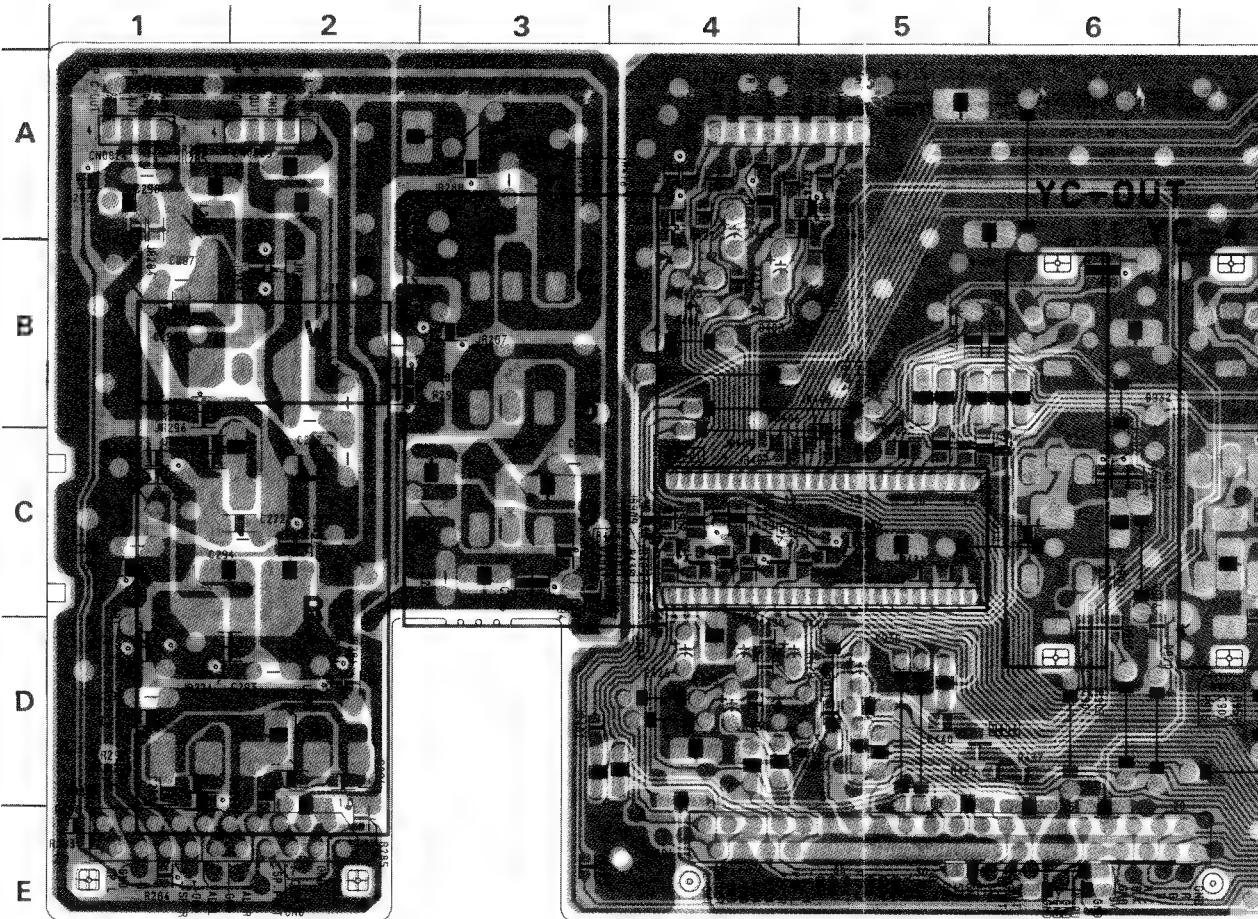
IC	
IC401	C-4
IC402	D-9
TRANSISTOR	
Q401	C-4
Q402	C-4
Q403	C-5
Q404	D-6
DIODE	
D401	B-5
D403	B-4
D405	B-4
D406	B-4
D407	B-4
D901	B-5
D902	B-6
D903	A-8
D904	A-9
D905	B-7
D906	A-7
D907	B-11
D908	E-11
D909	C-11
D910	C-11
D911	E-11
D913	B-9
D914	E-10
D915	C-8
D916	D-9
D917	D-8
D919	B-8
D920	D-6
D921	D-4
D922	D-5
D923	D-7
D924	D-10
D925	D-11
D926	D-10
D927	E-11
D928	B-11
D930	B-10
D931	A-7
D932	B-6

MC-Service

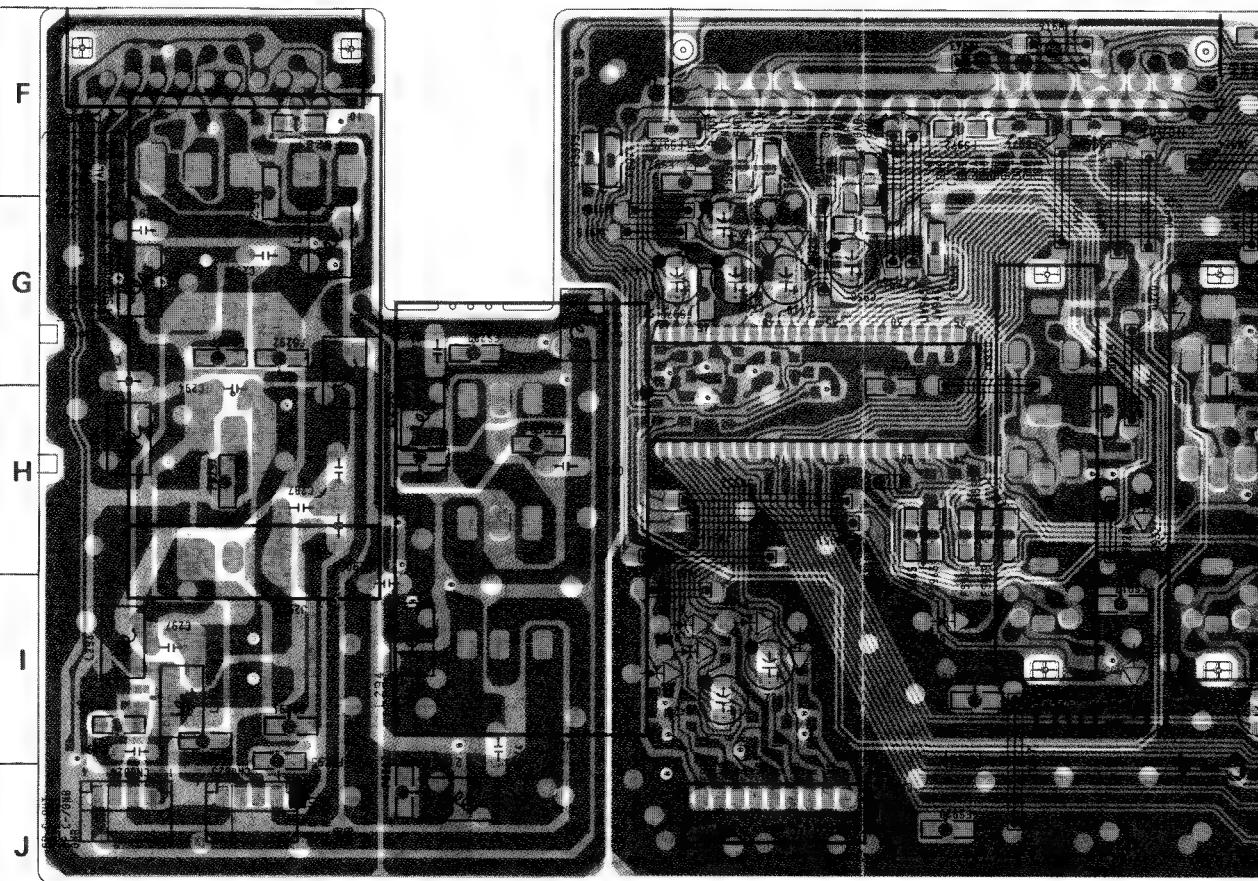
-  : Pattern from the side which enables seeing.
-  : Pattern of the rear side.

**J** [ VIDEO/AUDIO IN/OUT,  
SPEAKER TERMINAL ]

— J Board — <Conductor Side>



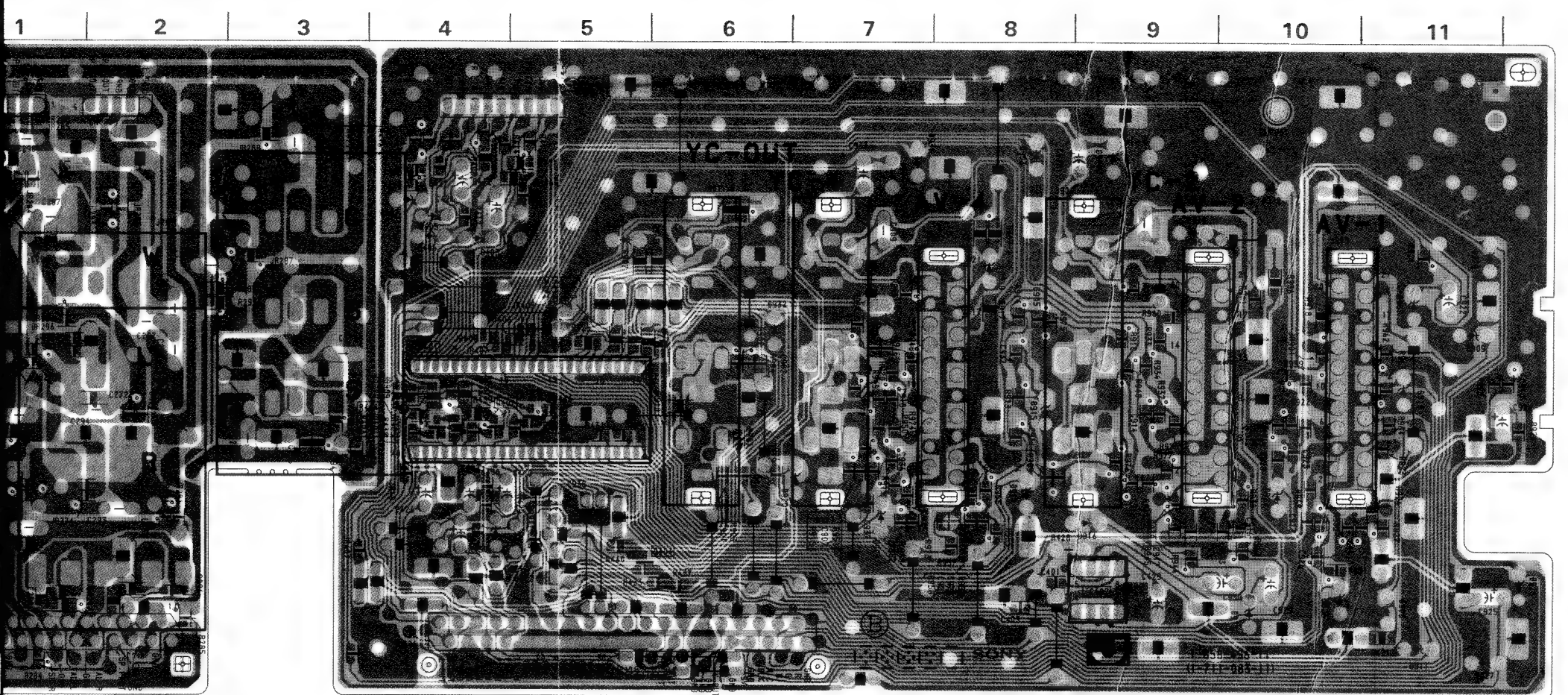
— J Board — <Component Side>



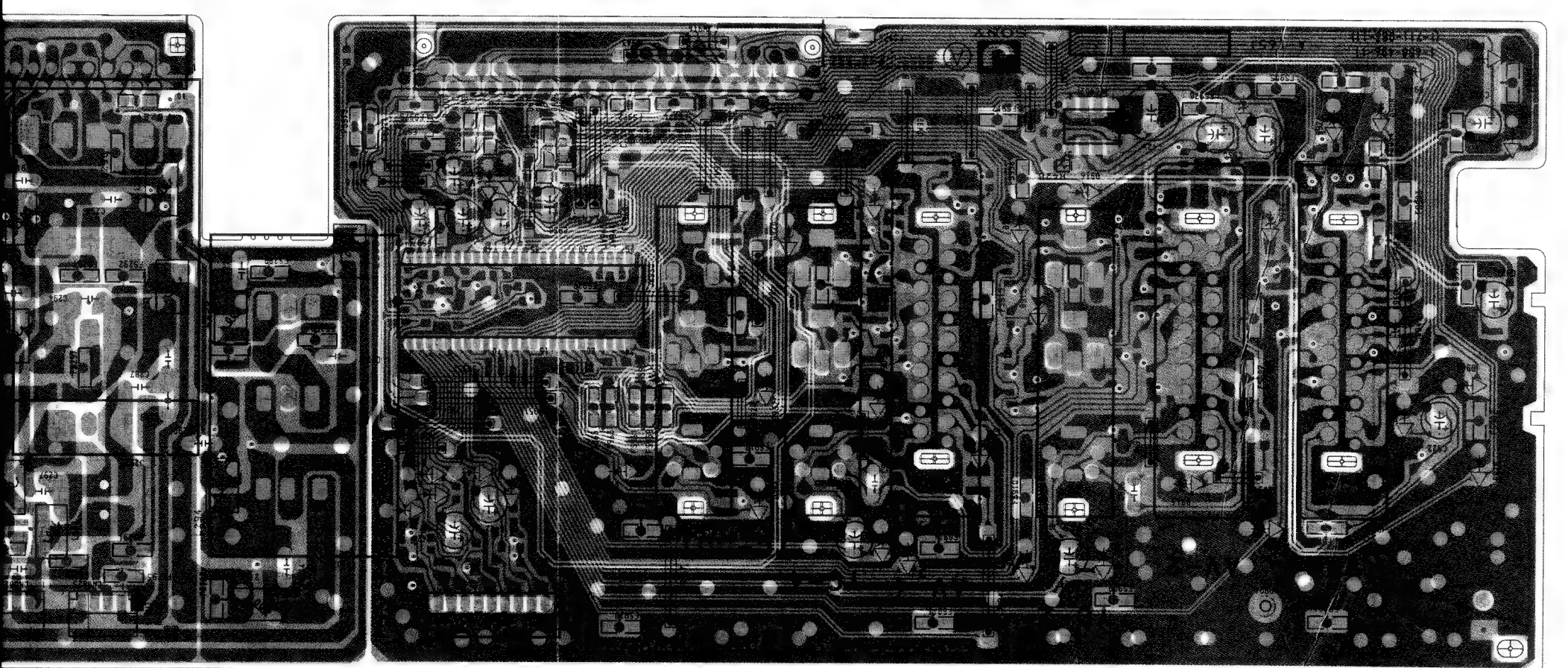


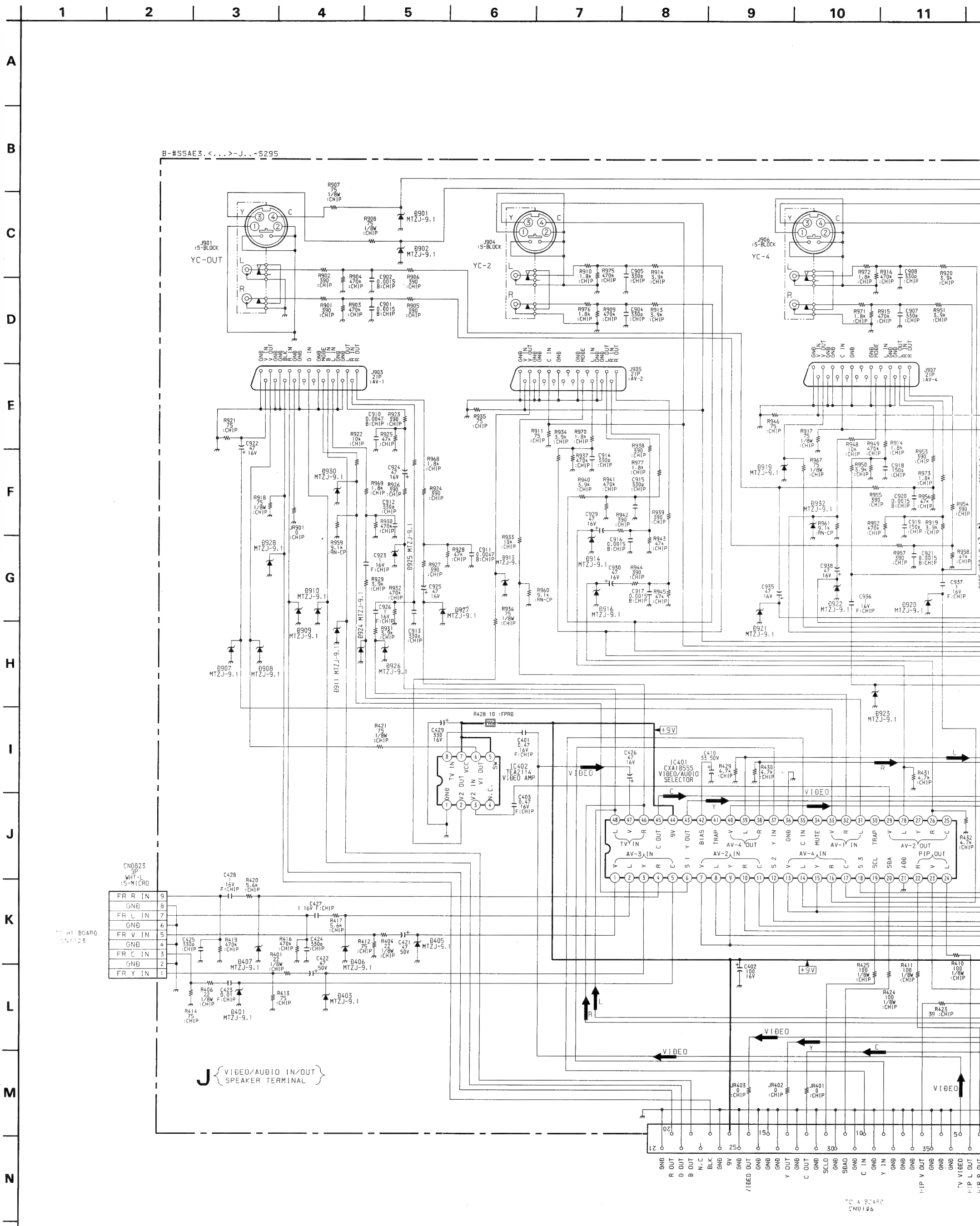
VIDEO/AUDIO IN/OUT,  
SPEAKER TERMINAL

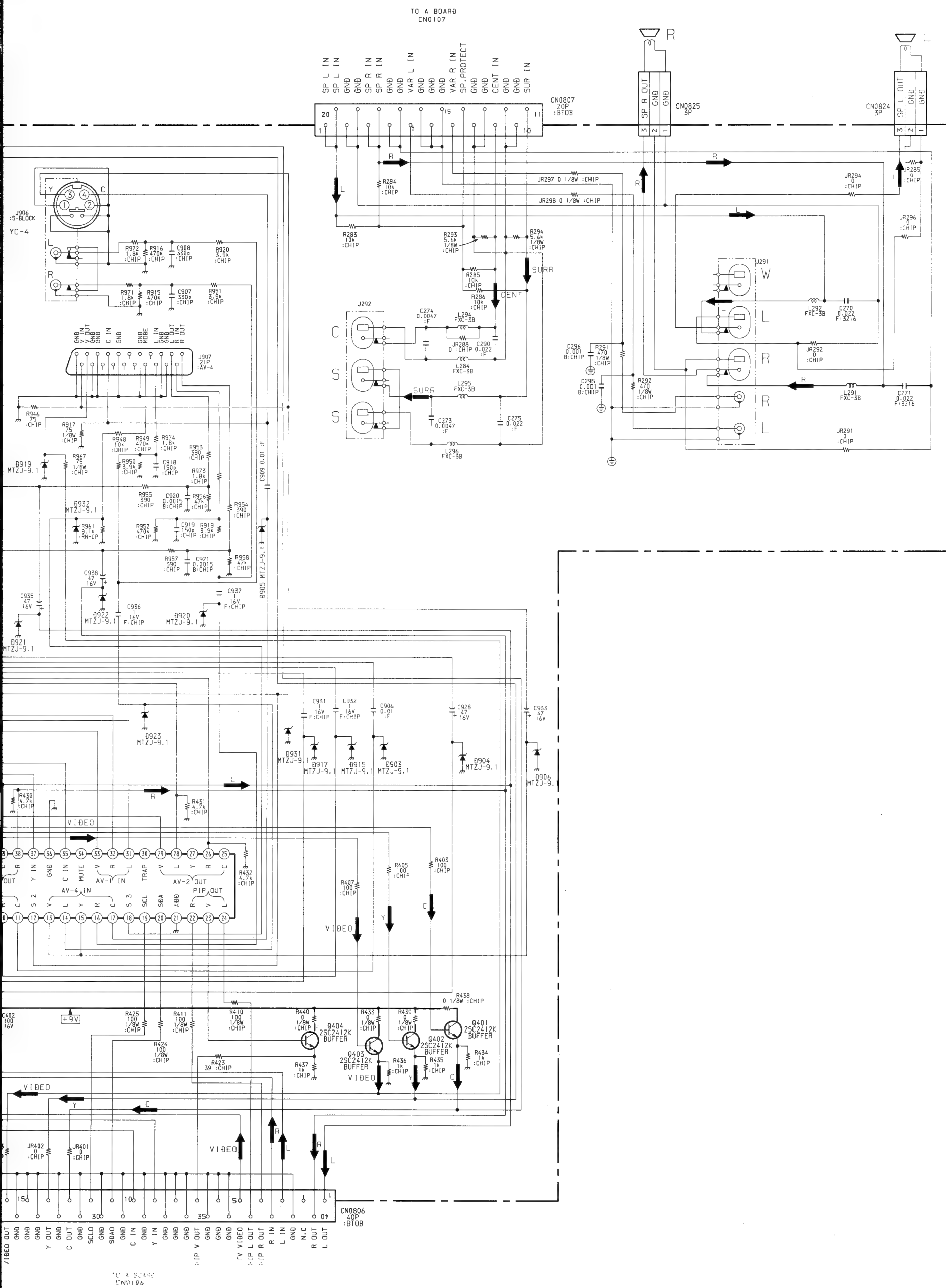
rd — <Conductor Side>

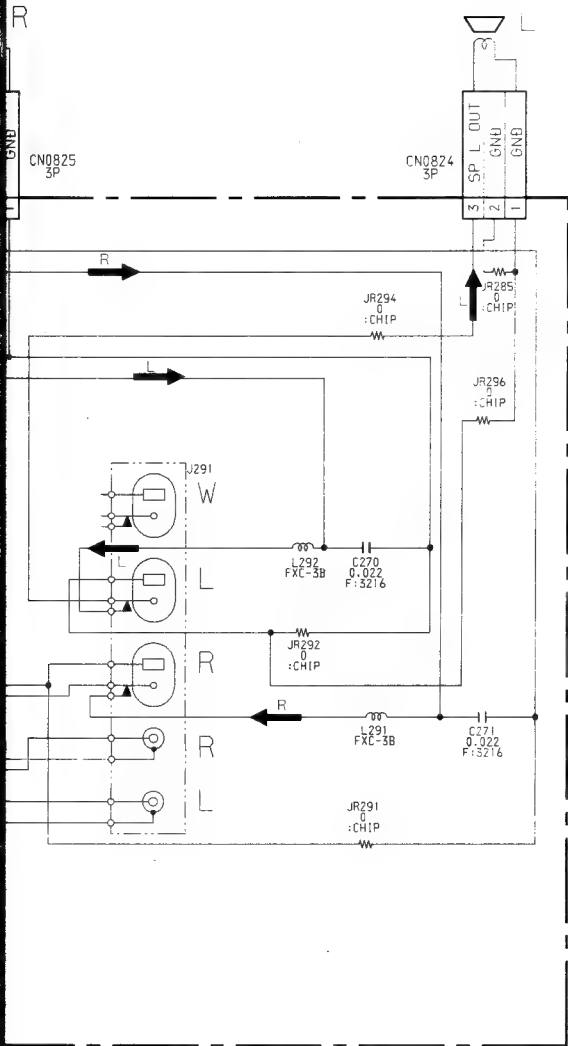


rd — <Component Side>





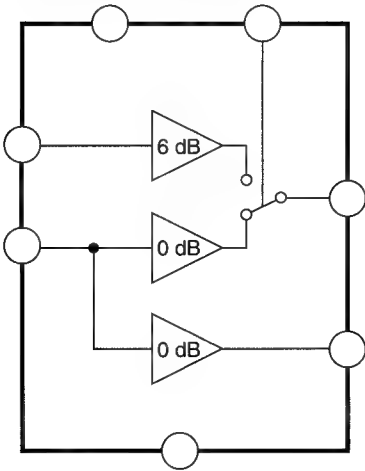




Ref.No.	Pin No.	Voltage (V)
IC401	1-5	4.5
	7-11	4.5
	13-17	4.5
	19-20	4.0
	22-33	4.5
	35	5.5
	37	5.5
	38-39	4.5
	40-41	4.4
	42	4.5
	43	5.4
	44	9.0
	45	5.5
	46	4.7
	47-48	4.5
IC402	2	1.8
	3	2.5
	5	8.8
	6	1.7
	7	8.8
	8	2.2

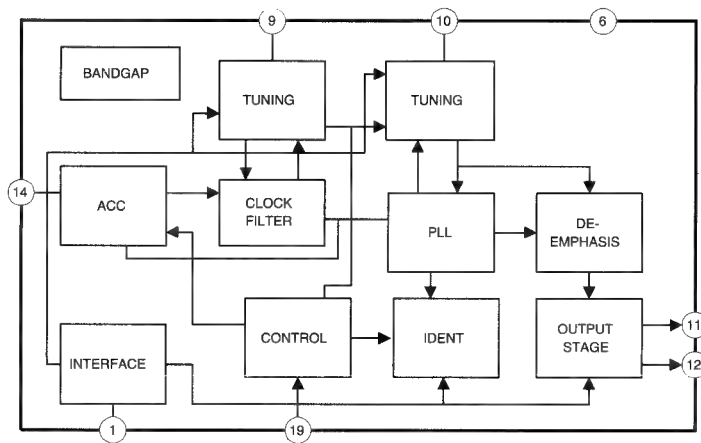
Pin No.	(B) Base	(C) Collector	(E) Emitter
Ref.No.			
Q401	5.7	9.0	-0.3
Q402	5.5	9.0	5.0
Q403/404	4.4	9.0	3.9

J Board IC402 TEA2114



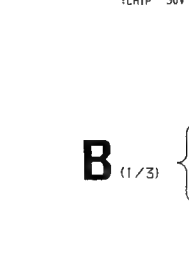
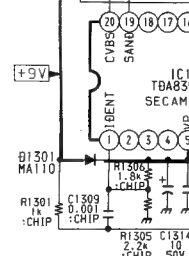
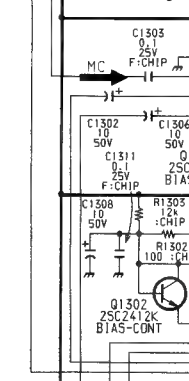
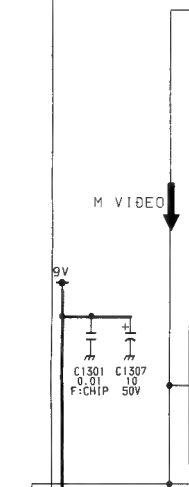
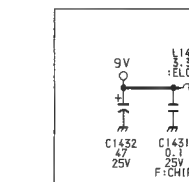
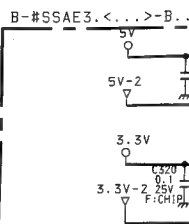
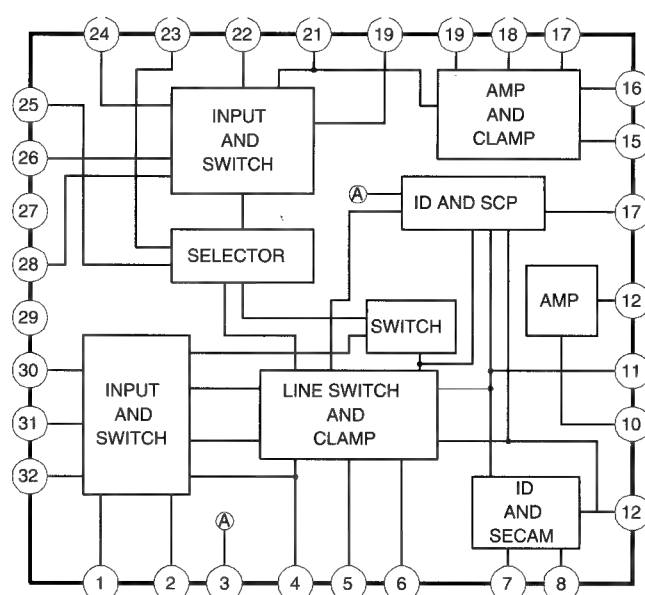


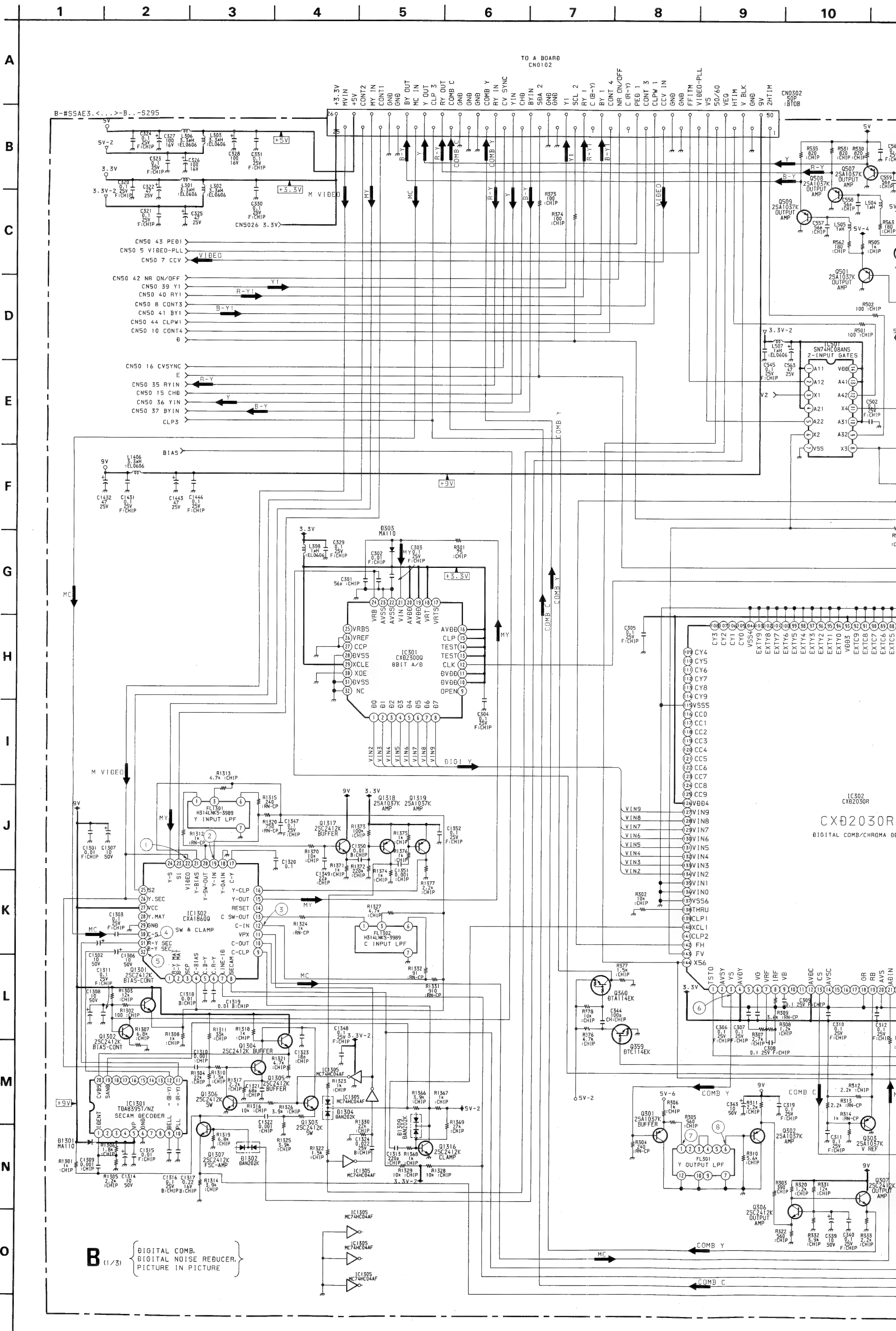
B Board IC1301 TDA8395T/NZ

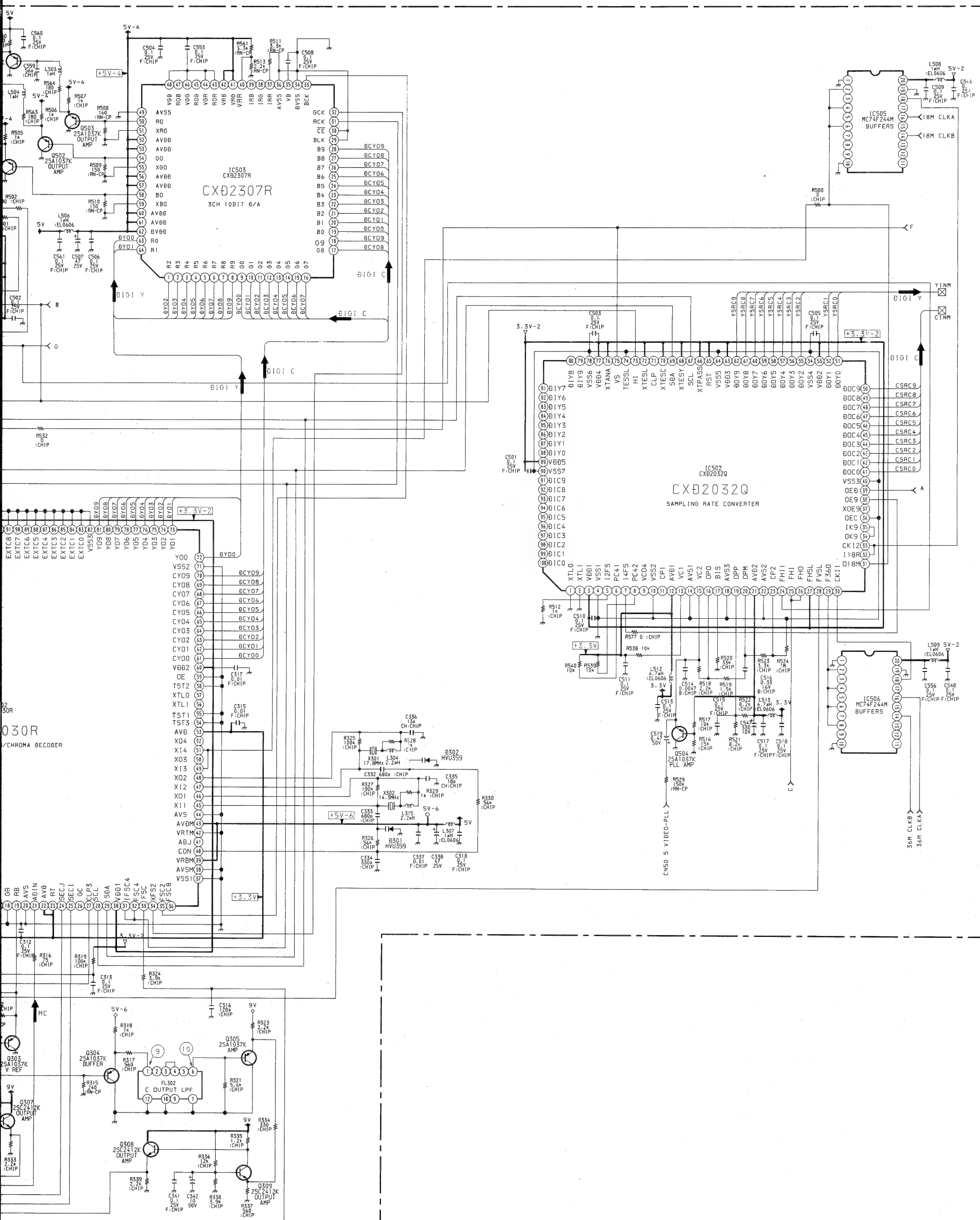


Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)
IC301	10-11	3.2		53	3.1		10	2.4
	12	1.1		63	3.1		11	3.0
	13-16	3.2		65-66	3.1		12-13	2.8
	18-20	3.2		67	4.2		15	2.3
	21	2.3		68	3.1		16	0.1
	24	1.7		69	4.1		17	3.0
IC302	29	3.2		70	3.1		19-21	2.8
	1	3.0		72	3.1		22	3.6
	3	0.4		73	1.6		24	3.6
	4	3.2		75	0.1		26	3.6
	6	1.4		76-77	3.1		27	8.8
	7-8	1.0		89	3.1		30	4.2
	9	0.4	IC503	31-33	1.2		31-32	4.0
	12	3.2		35	1.2	All Voltages are indicated in Volts DC		
	13	0.5		37	1.9			
	21	2.4		40	2.0			
	22-23	3.2		41-42	5.0			
	24	0.1		43-44	3.0			
	25	2.2		46	3.0			
	27	0.1		48	3.0			
	28-29	4.2		50	0.6			
	30	3.0		52-53	4.8			
	31-35	1.2		54	0.6			
	39	4.8		56	4.8			
	40	2.6		58	0.6			
	43	4.8		60-61	4.8			
	45	3.1		62	1.4			
	46	3.1	IC1505	2	1.2			
	47-48	1.6		4	1.2			
	49	1.2		6	1.2			
	51	1.2		14	1.5			
	53	3.2		16	1.5			
	60	3.1		18	1.5			
	93	3.1		20	4.8			
IC502	3	3.1	IC1506	2	1.0			
	5	1.0		4	1.0			
	6	1.6		6	1.0			
	7-9	1.0		8	1.0			
	11	1.5		12	1.3			
	12	3.2	IC1301	14	1.4			
	13	1.5		16	1.4			
	15	1.8		18	1.4			
	16	1.8		20	4.8			
	17	1.2		1	4.4			
	19-20	1.6	IC1302	5	8.0			
	21	3.2		9	3.2			
	23-25	1.6		10	4.2			
	26	1.7		11-12	2.9			
	27	3.1		19	0.5			
	28	0.3	IC1302	20	7.0			
	29	1.1		4	2.8			
	30	1.6		5-6	4.2			
	31	1.2		7	2.2			
	32-33	1.5		8	0.1			
	34-35	1.3		9	0.2			

B Board IC1302 CXA1860Q

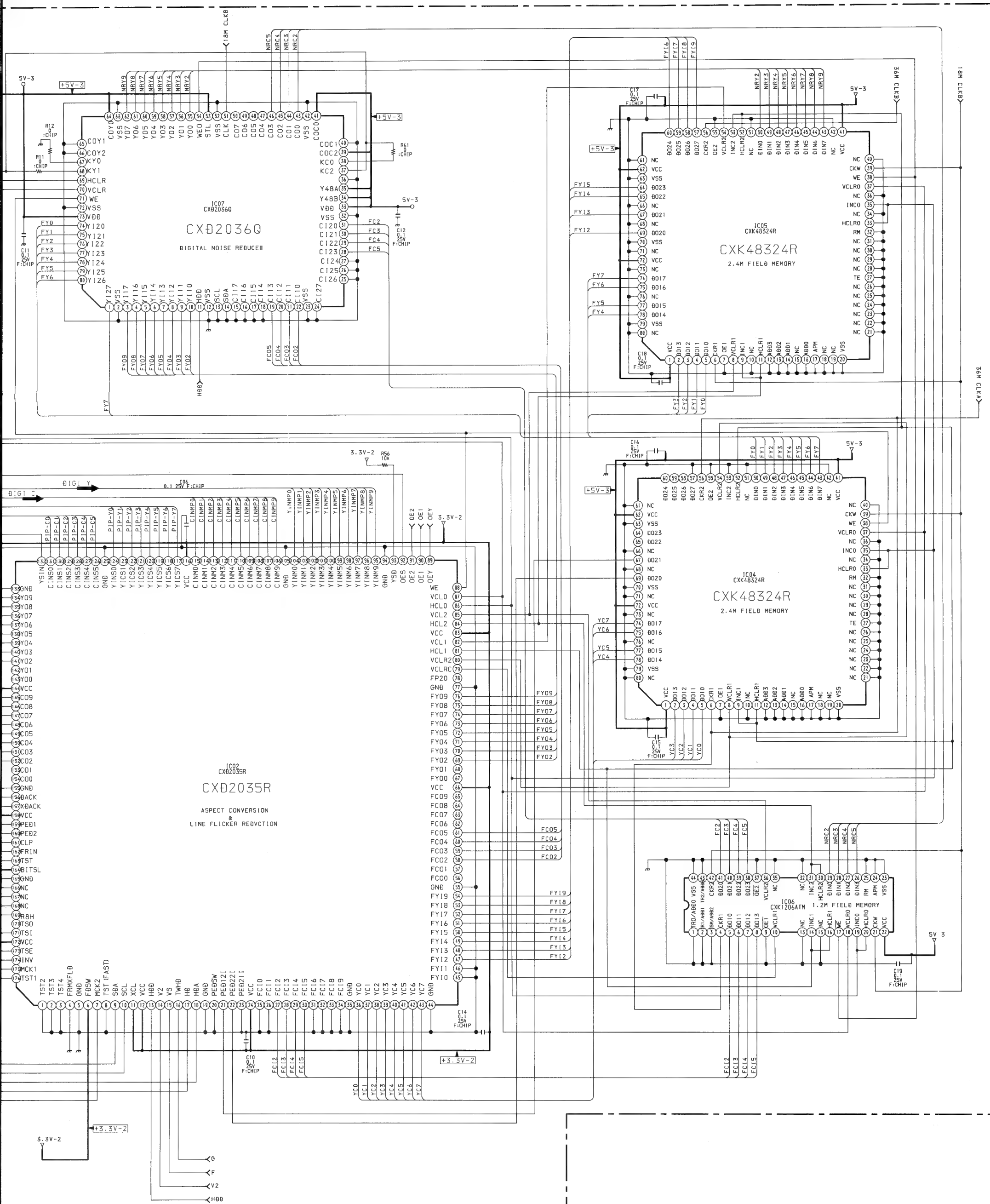












18M CLKB

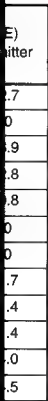
36M CLKA

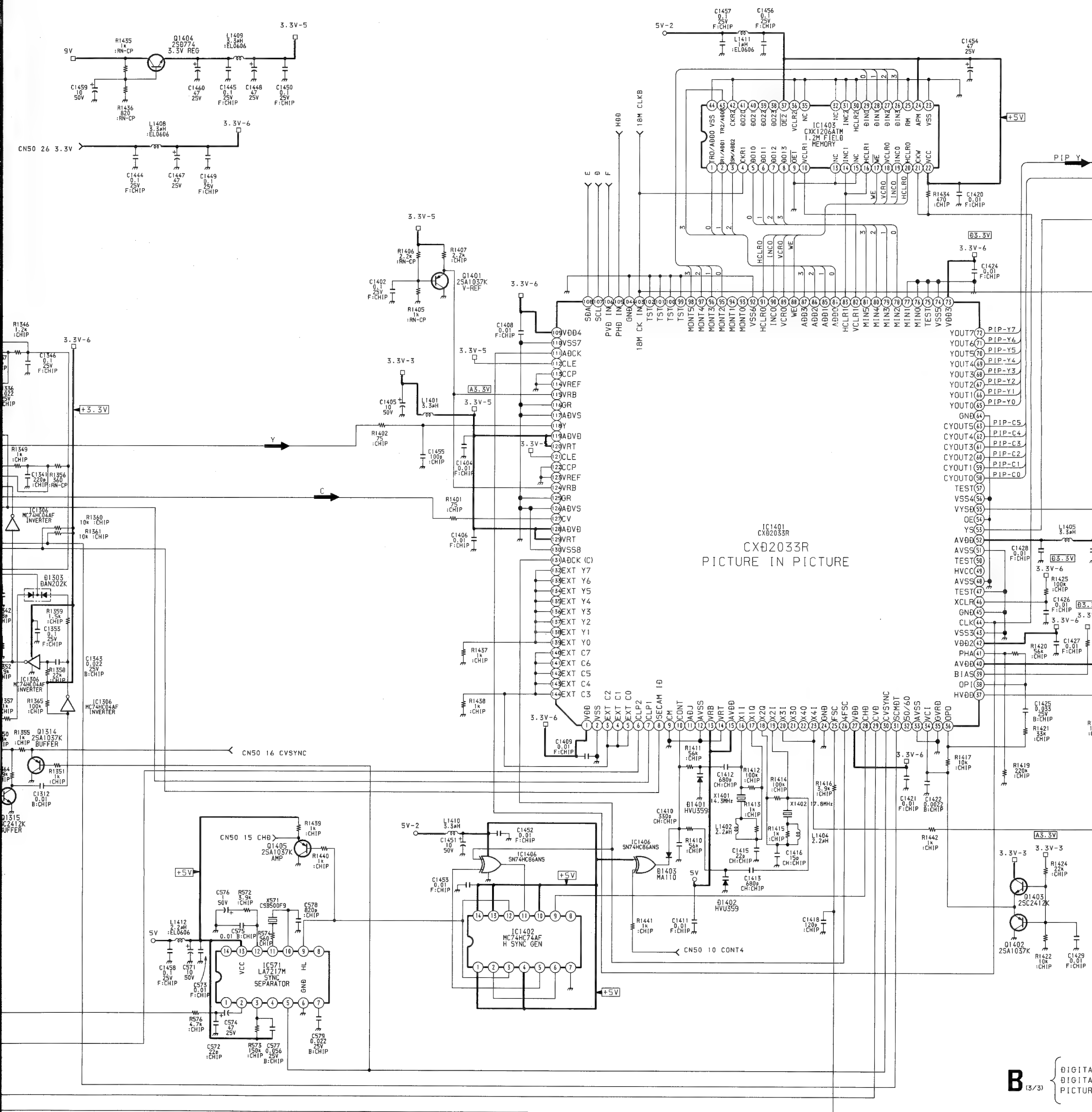
Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)
IC01	27	1.2	IC06	4	1.3
	28-29	1.5		10	0
	32	1.1		17	1.0
	34-35	1.9		21	1.2
	37	0.3		22	4.8
	39	1.1		42	1.3
	41	1.1	IC07	11	1.6
	42	3.0		33-35	4.8
	43-48	4.8		39	4.8
IC02	6	3.1		41	4.8
	7	1.3		51	1.4
	9-10	4.2		53	4.8
	11-12	3.0		54	1.0
	13	1.6		64	4.8
	15	0.1		71	0.7
	16	1.6		73	4.8
	17	1.7			
	18	1.6			
	21-22	0			
	24	3.1			
	66	3.1			
	79-82	0			
	83	3.0			
	84-87	0			
	88	0.7			
	89-91	3.0			
	92-93	0			
	132	0			
	144	3.1			
	156	1.5			
	157	3.1			
	158-159	0			
	160	0.1			
	164	3.1			
	172	3.1			
	175	1.5			
IC04	1	4.8			
	6	1.2			
	8-9	0			
	11	0			
	38	0.7			
	39	1.3			
	41	4.8			
	56	1.5			
	62	4.8			
IC05	72	4.8			
	1	4.8			
	6	1.4			
	38	1.0			
	39	1.4			
	41	4.8			
	56	1.2			
	62	4.8			
	72	4.8			

Pin No.	(B) Base	(C) Collector	(E) Emitter
Ref.No.			
Q01	0.8	0	1.5
Q02/03	1.6	0	2.2
Q04	0.3	0	0.9
Q05/06	1.1	0	1.9

Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)
IC571	2	2.3		37-38	1.1
	3	2.8		39	1.2
	5	4.1		40	3.3
	7	4.7		41	1.1
	9	3.9		42	3.2
	10	3.8		44	1.8
	11	2.6		46	3.2
	12	2.1		52	3.2
	13	4.8		73	3.2
IC1303	1	4.5		107	4.1
	5	8.0		108	4.0
	9	3.2		109	3.2
	10	4.2		111	1.8
	11-12	3.0		112	3.2
IC1304	3	0.4		115	1.7
	4	2.6		118	2.3
	5-6	3.8		119-121	3.3
	7	2.2		124	1.7
	8	0.1		128-129	3.3
	9	0.2		131	0.9
	10	2.0	IC1402	1	4.8
	11	3.0		2	2.4
	12	2.6		3	4.0
	13	2.3		4	4.8
	15	2.3		5-6	2.4
	16	0.2		9	4.5
	17	2.5		10	4.8
	19	2.8		11	2.4
	20	3.0		12	4.0
	21	2.7		13-14	4.8
	22	3.6	IC1403	4	1.4
	26	3.6		21	1.8
	27	8.8		22	4.8
	28	3.4		24	4.8
	30	3.6		37	4.8
	31-32	4.0			
IC1401	1	3.2			
	7	0.2			
	8	2.2			
	10	2.8			
	13	5.0			
	15	5.0			
	16-17	3.2			
	18-19	1.7			
	20	1.4			
	23	1.4			
	25	1.4			
	26	0.9			
	27	3.2			
	28	4.5			
	29	0.2			
	30	4.1			
	31	0.1			
	34	1.4			
	36	1.4			

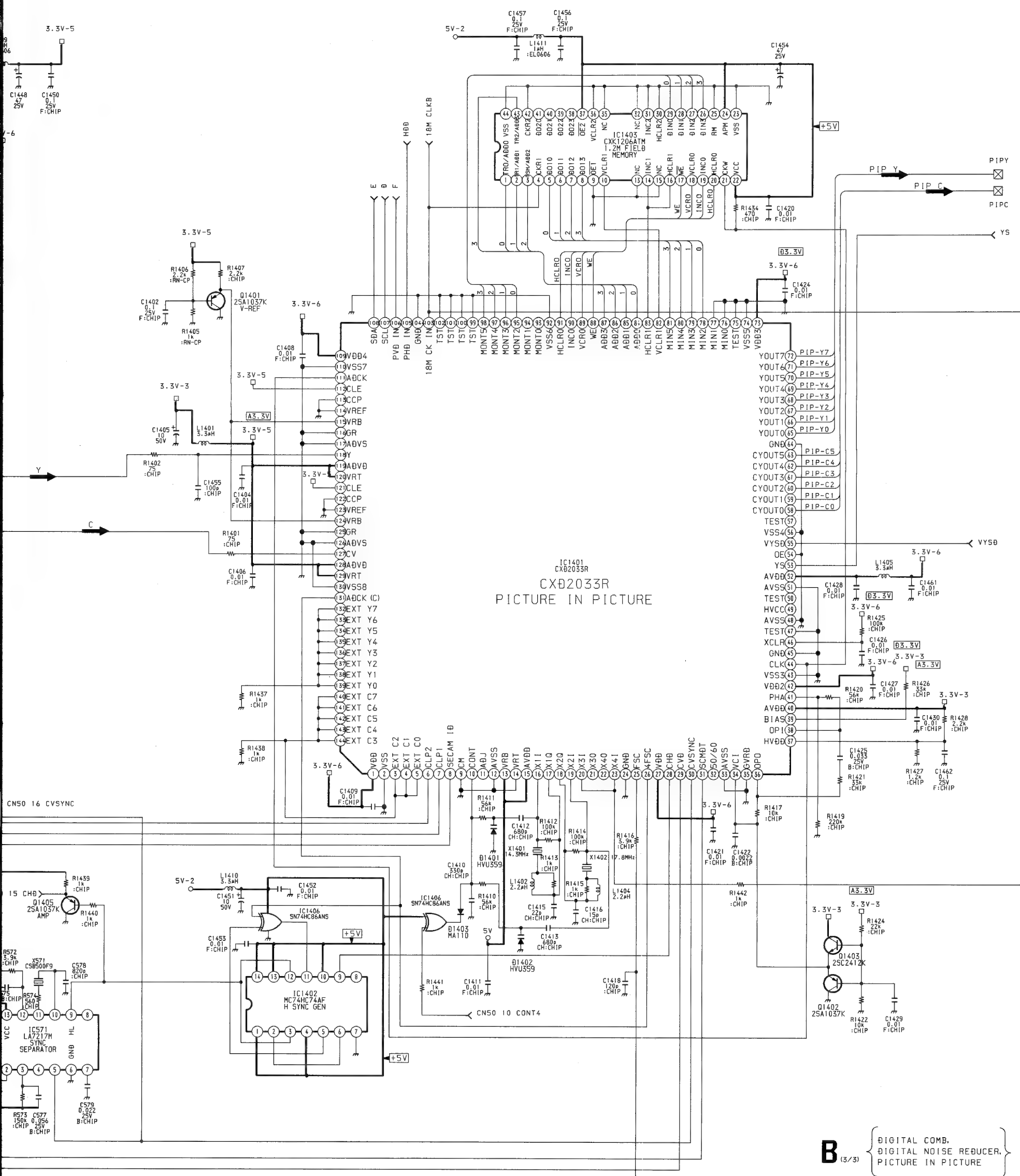
Pin No.	(B)	(C)	(E)
Ref.No.	Base	Collector	Emitter
Q1308	3.3	8.8	2.7
Q1309	0	7.6	0
Q1310	7.6	8.8	6.9
Q1311	3.3	7.6	2.8
Q1313	0.2	8.8	0.8
Q1314	4.1	0.2	0
Q1315	0	4.4	0
Q1401	1.0	0	1.7
Q1402	1.0	0	1.4
Q1403	1.0	3.3	1.4
Q1404	3.3	8.8	4.0
Q1405	4.0	0	4.5





B (3/3)

DIGITAL  
DIGITAL  
PICTURE



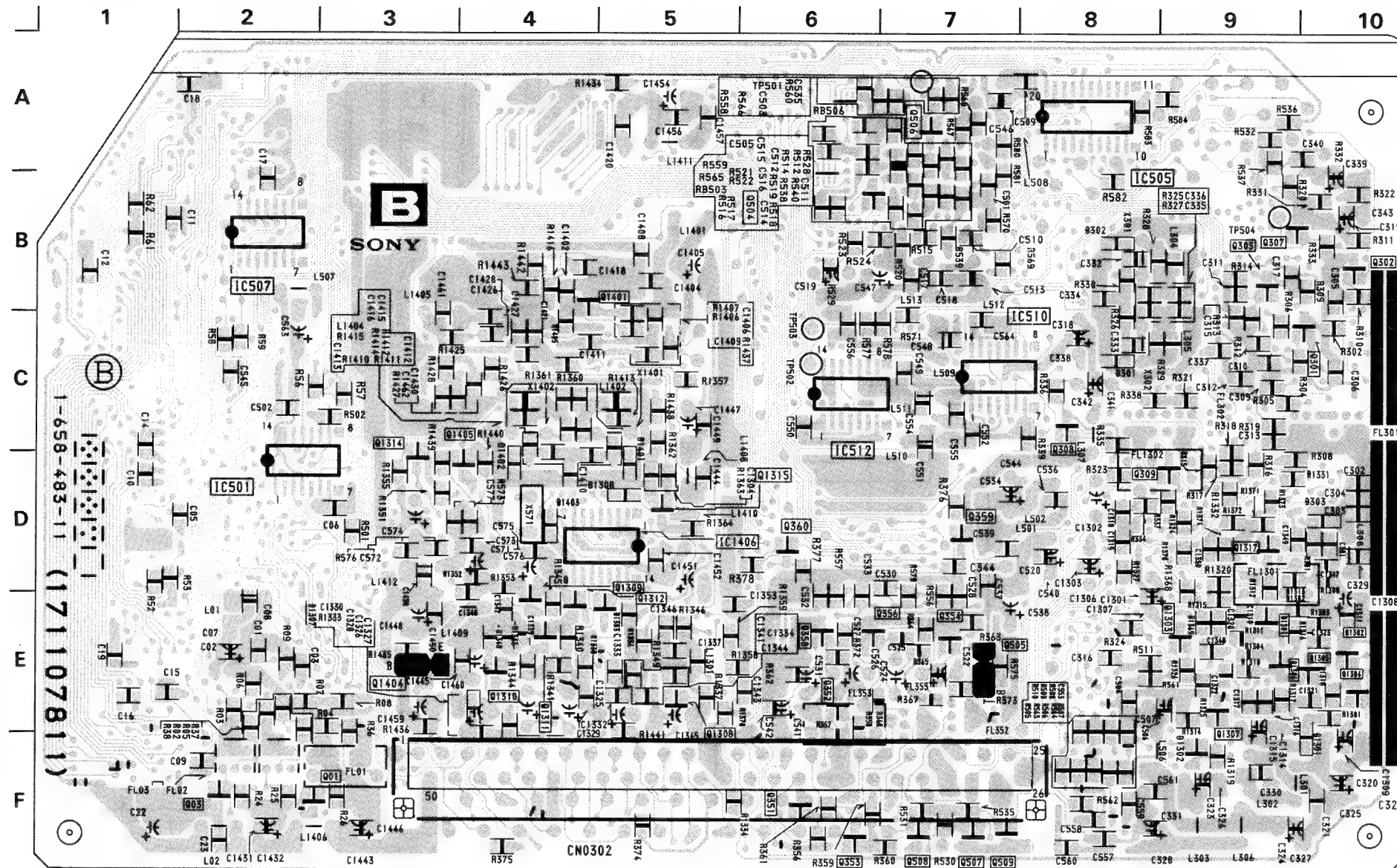
(3/3)

DIGITAL COMB.  
DIGITAL NOISE REDUCER.  
PICTURE IN PICTURE

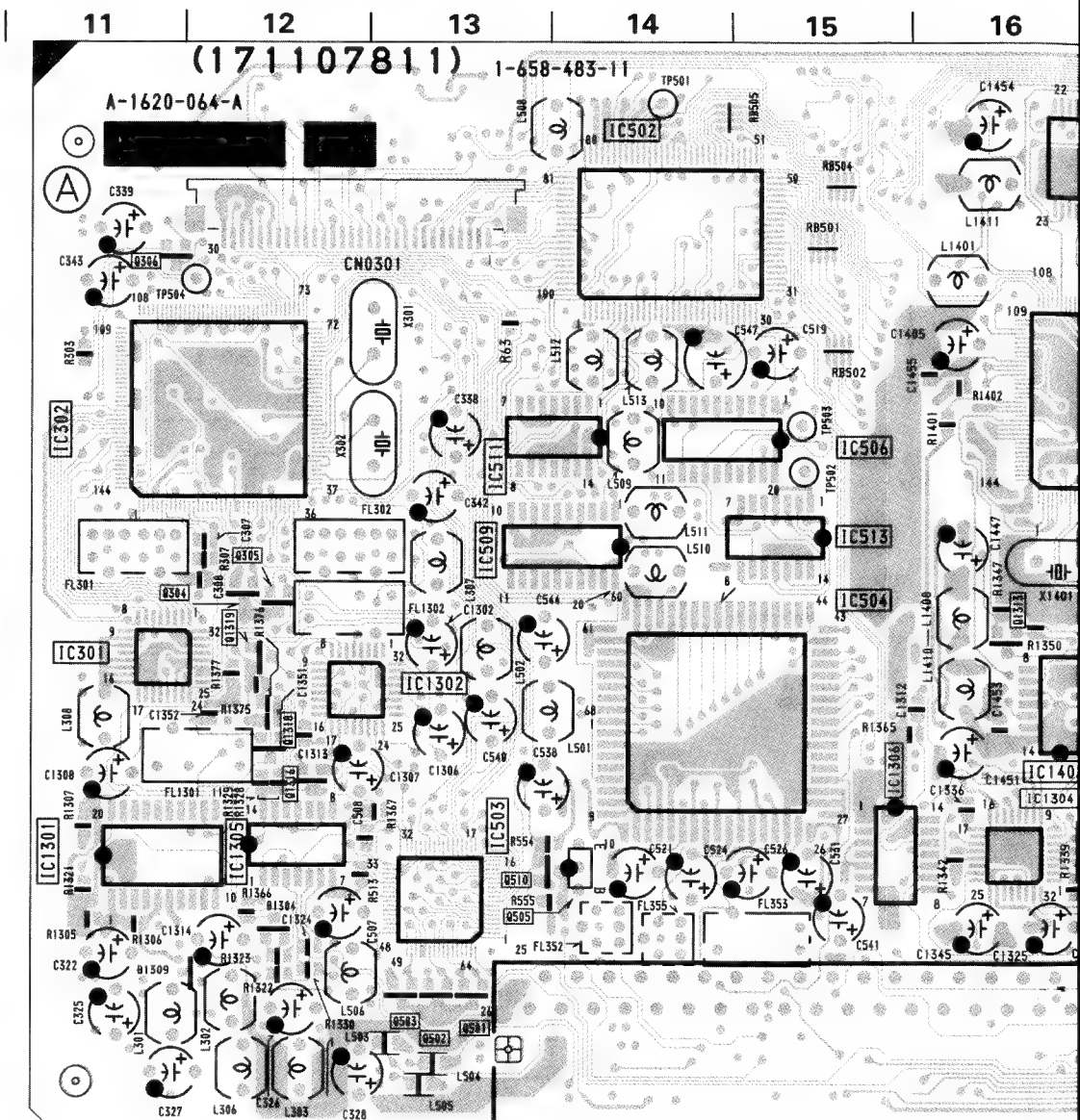


[ DIGITAL COMB, DIGITAL NOISE REDUCER,  
PICTURE IN PICTURE ]

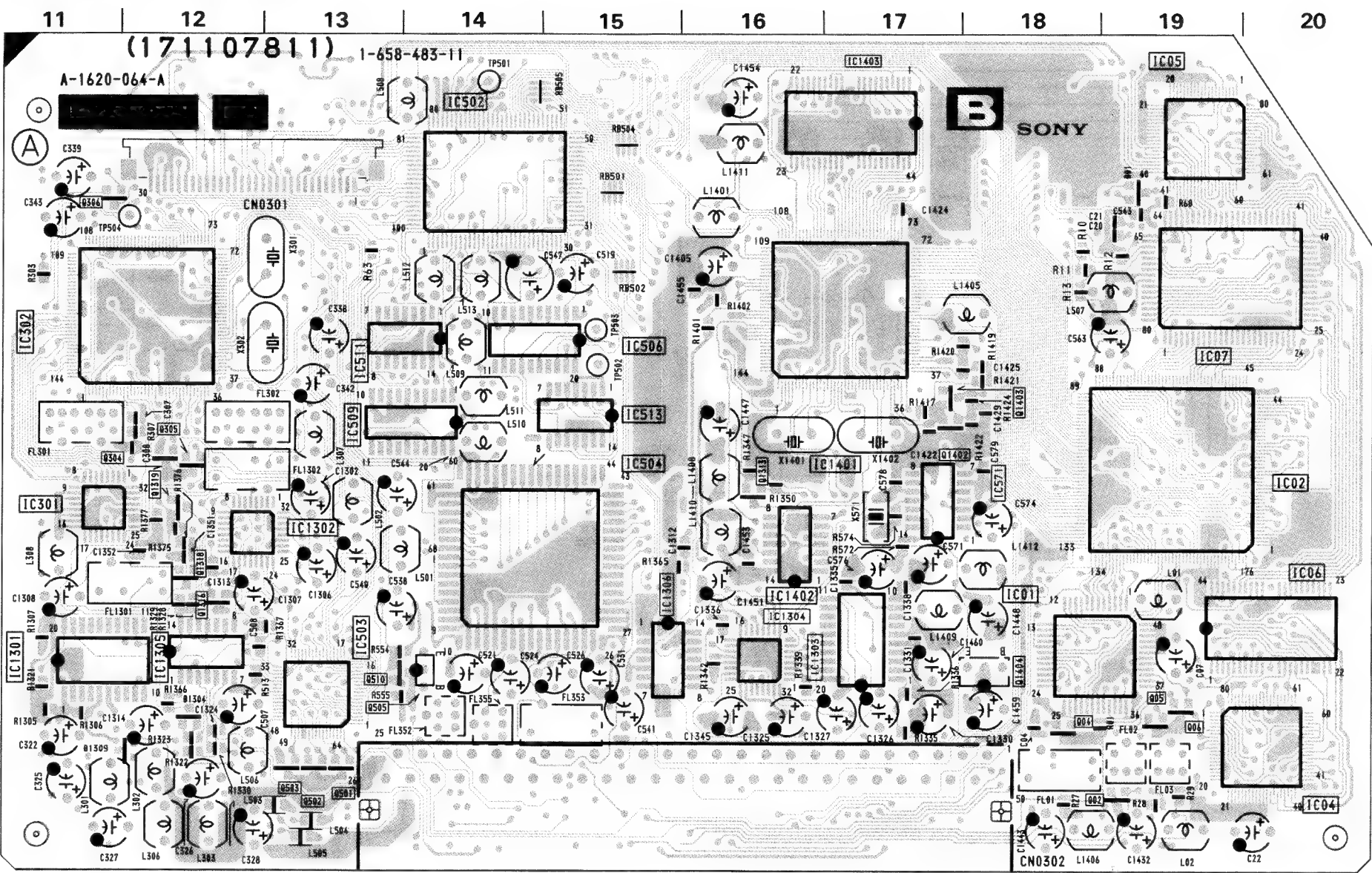
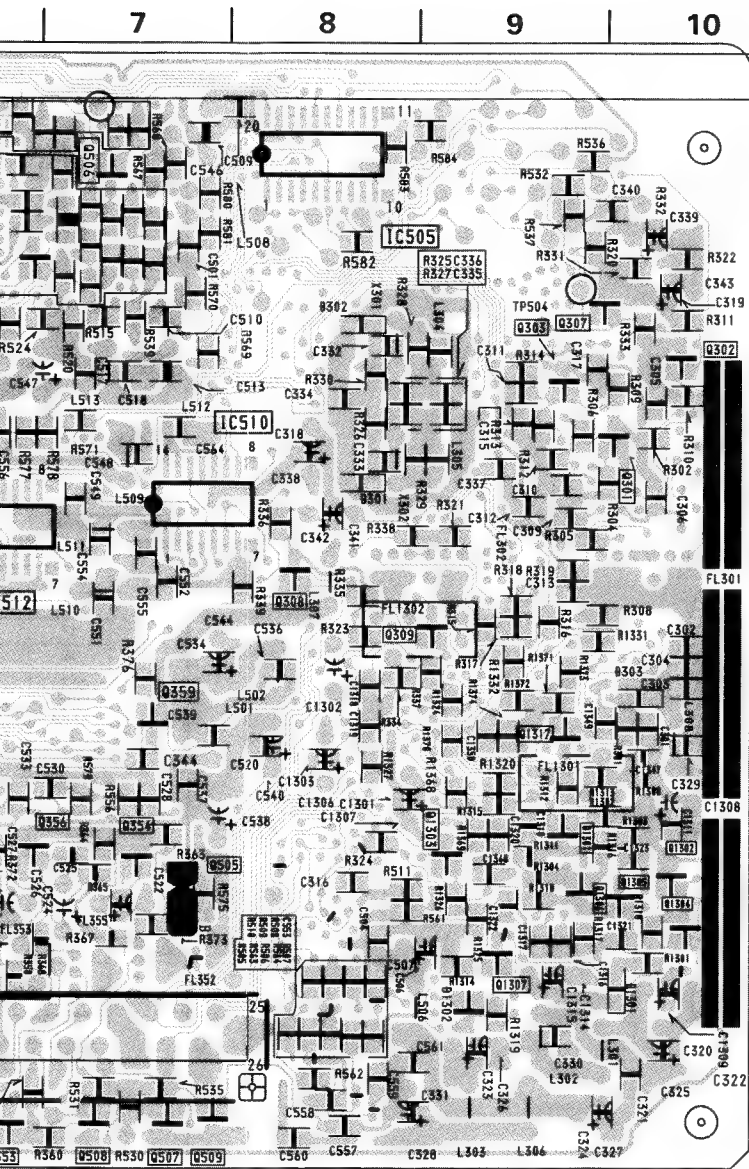
— B Board — <Conductor Side>



— B Board — <Component Side>



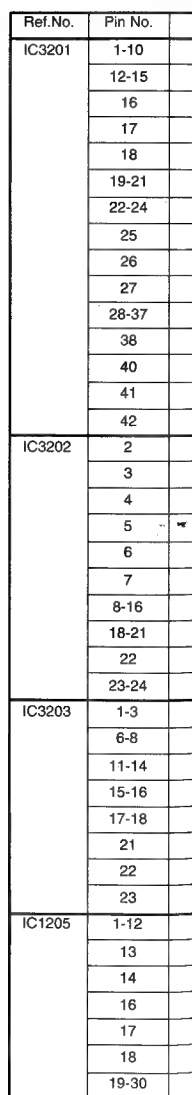
— B Board — <Component Side>

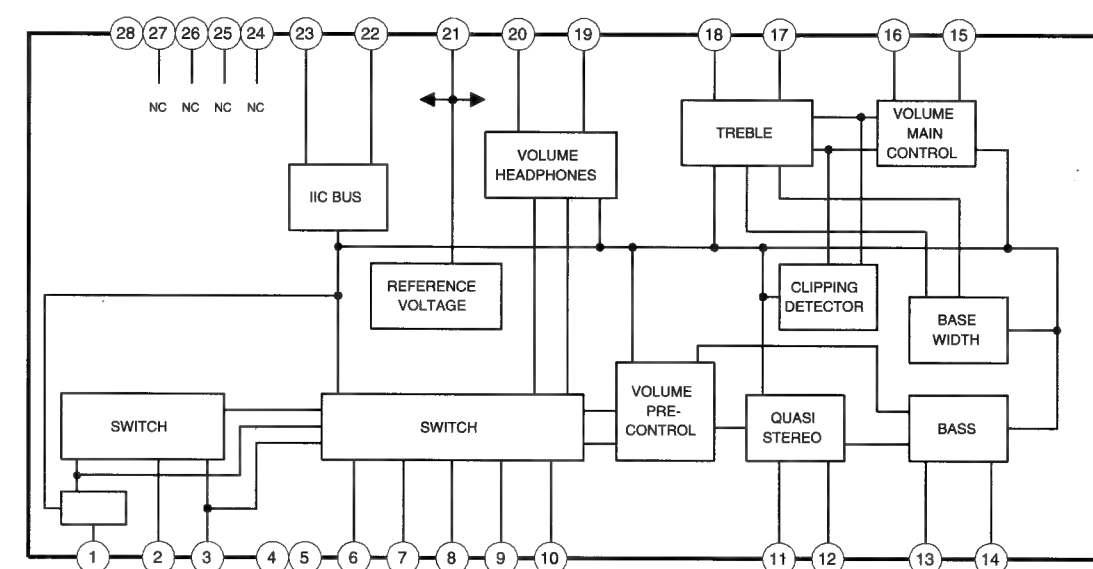
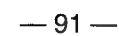


B BOARD

IC			
IC01	D-18	Q359	D-7
IC02	D-20	Q360	D-6
IC04	F-20	Q501	F-13
IC05	A-19	Q502	F-13
IC06	D-20	Q503	F-13
IC07	C-19	Q504	B-6
IC301	D-11	Q505	E-7
IC302	C-11	Q507	F-7
IC501	D-2	Q508	F-7
IC502	A-14	Q509	F-7
IC503	E-13	Q510	E-13
IC504	D-15	Q1301	E-9
IC505	A-8	Q1302	E-10
IC506	C-15	Q1303	E-9
IC507	B-2	Q1304	E-10
IC571	D-18	Q1305	E-10
IC1301	E-11	Q1306	E-10
IC1302	D-13	Q1307	E-9
IC1303	E-17	Q1308	E-5
IC1304	E-16	Q1309	D-4
IC1305	E-12	Q1310	E-4
IC1306	D-15	Q1311	E-4
IC1401	D-17	Q1312	D-5
IC1402	D-16	Q1313	D-16
IC1403	A-17	Q1314	C-3
IC1406	D-5	Q1315	D-6
		Q1316	E-12
		Q1317	D-9
		Q1318	D-12
		Q1319	D-12
		Q1401	B-5
		Q1402	C-18
		Q1403	C-18
		Q1404	E-3
		Q1405	C-4
TRANSISTOR		DIODE	
Q01	F-3	D01	A-19
Q02	F-19	D301	C-8
Q03	F-2	D302	B-8
Q04	E-18	D303	D-10
Q05	E-19	D1301	E-10
Q06	E-19	D1302	F-9
Q301	C-10	D1303	E-5
Q302	B-10	D1304	E-12
Q303	B-9	D1307	E-2
Q304	D-12	D1308	D-5
Q305	C-12	D1309	F-11
Q306	B-11	D1401	C-5
Q307	B-9	D1402	C-4
Q308	C-8	D1403	D-4
Q309	D-8		
Q351	F-6		
Q352	E-6		
Q353	F-6		
Q354	E-7		
Q356	E-7		
Q358	E-6		



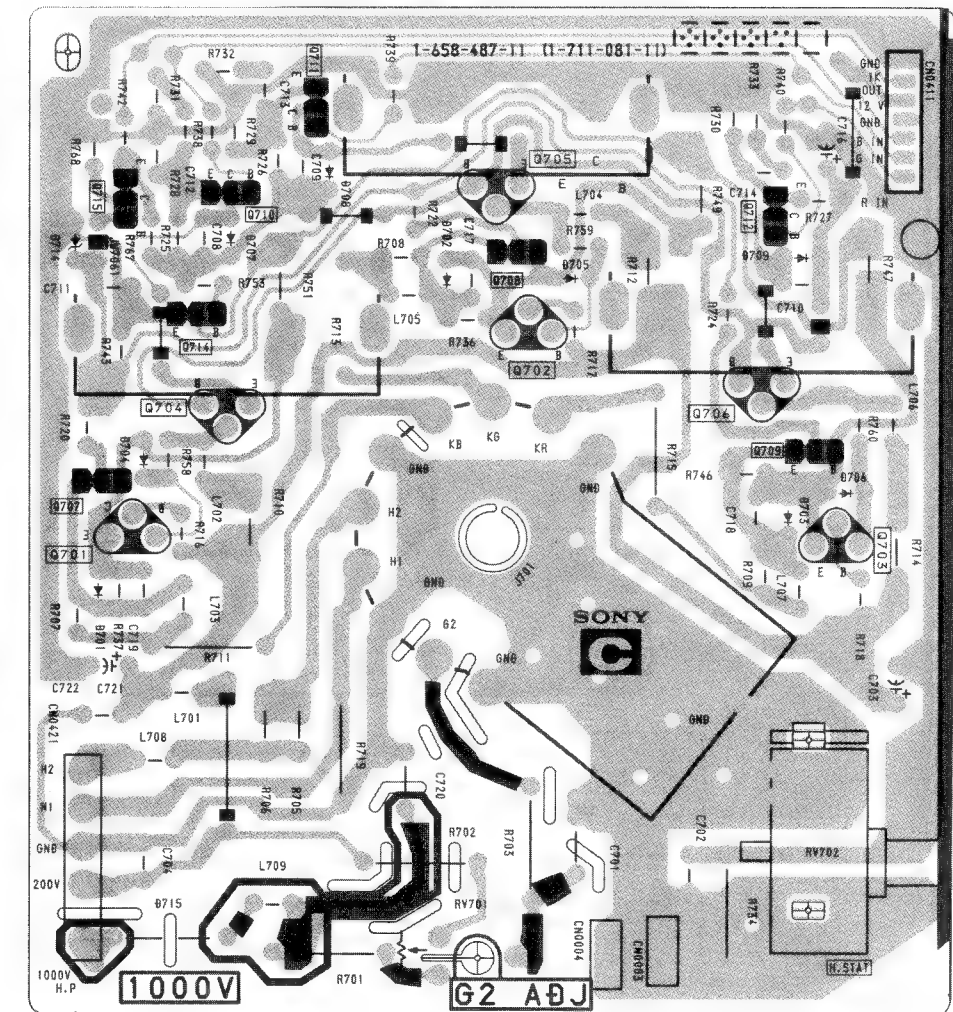




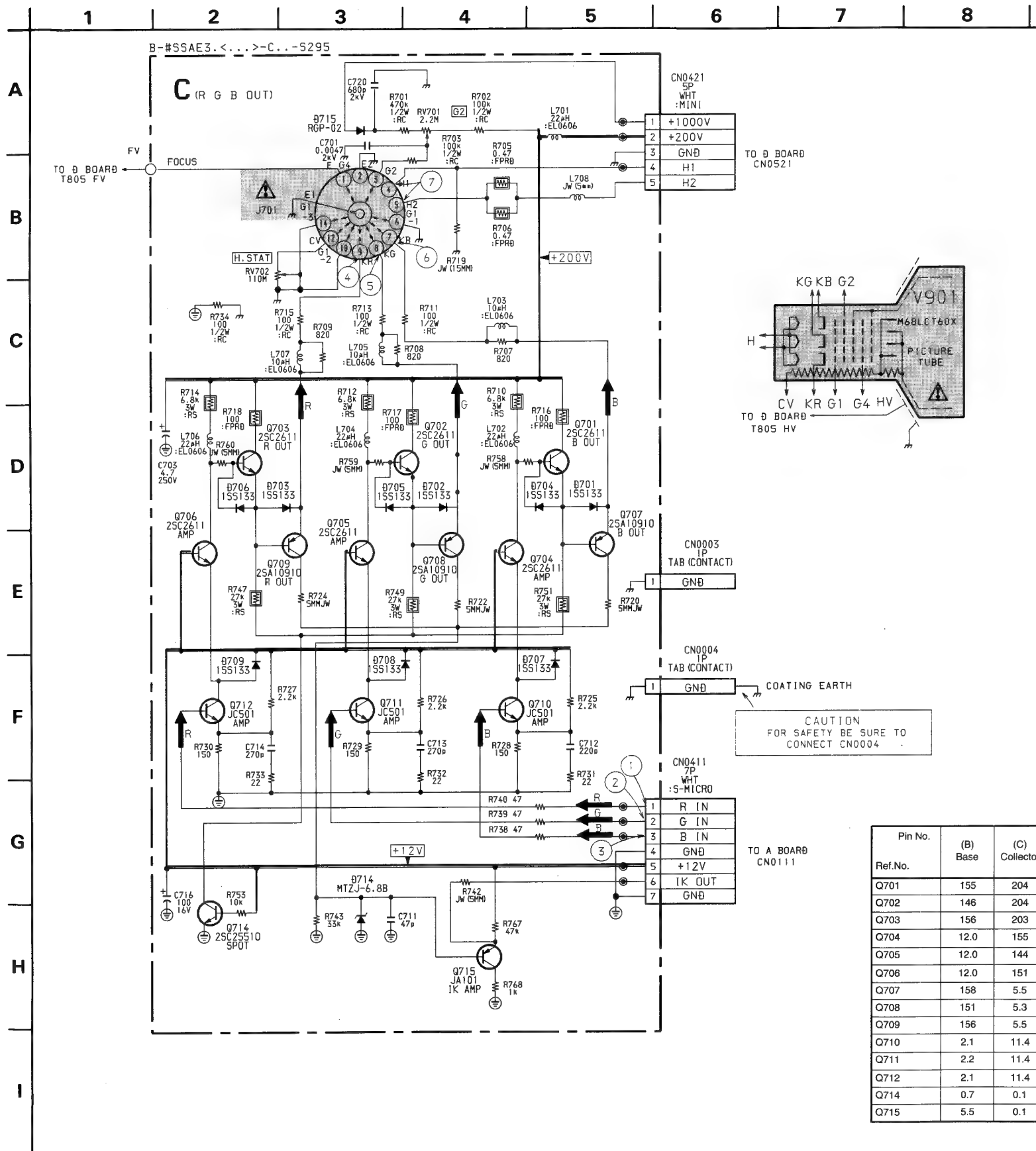
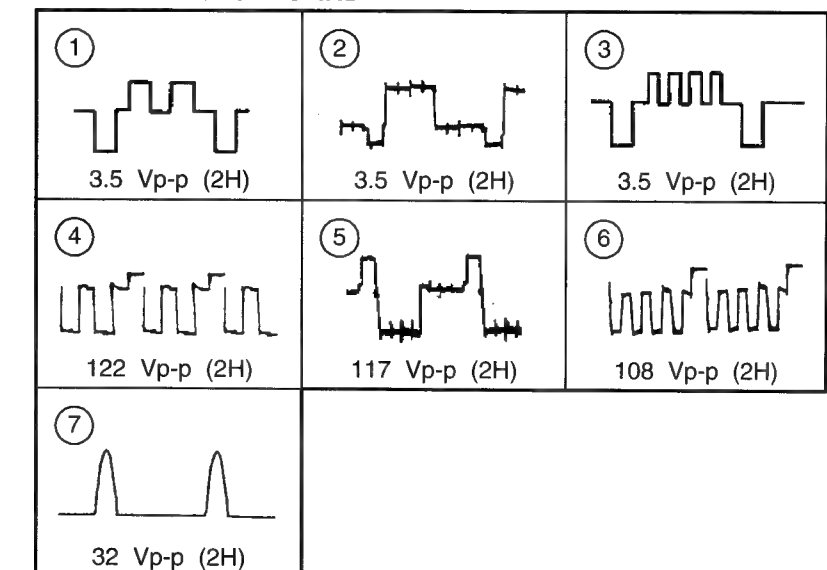
C

[RGB OUT]

— C Board —



## WAVEFORMS C BOARD

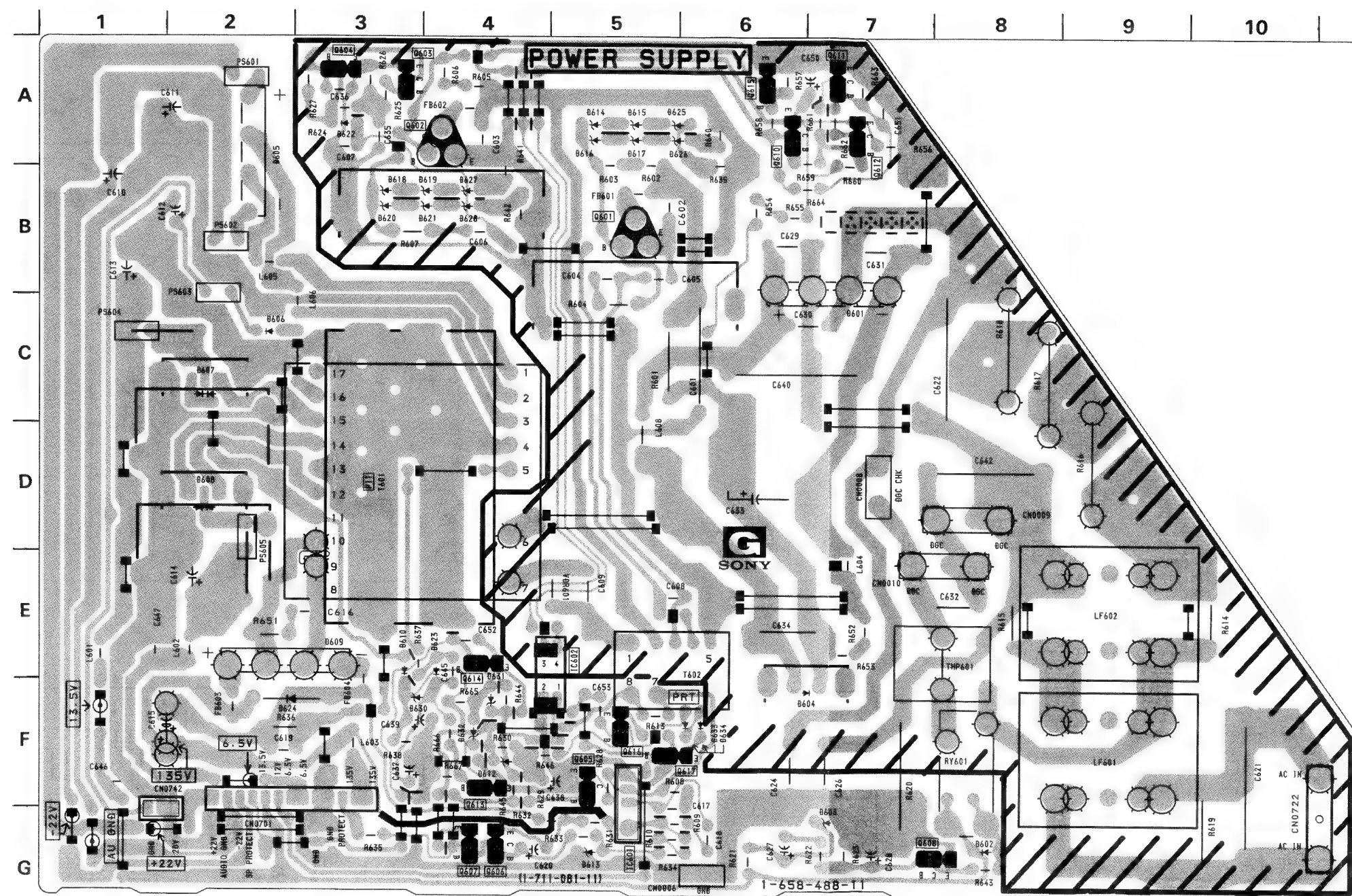


Pin No.	(B) Base	(C) Collector	(E) Emitter
Ref.No.			
Q701	155	204	159
Q702	146	204	151
Q703	156	203	156
Q704	12.0	155	11.5
Q705	12.0	144	11.5
Q706	12.0	151	11.5
Q707	158	5.5	176
Q708	151	5.3	173
Q709	156	5.5	168
Q710	2.1	11.4	1.7
Q711	2.2	11.4	1.8
Q712	2.1	11.4	1.7
Q714	0.7	0.1	0
Q715	5.5	0.1	3.2



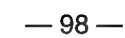
**G** [POWER SUPPLY]

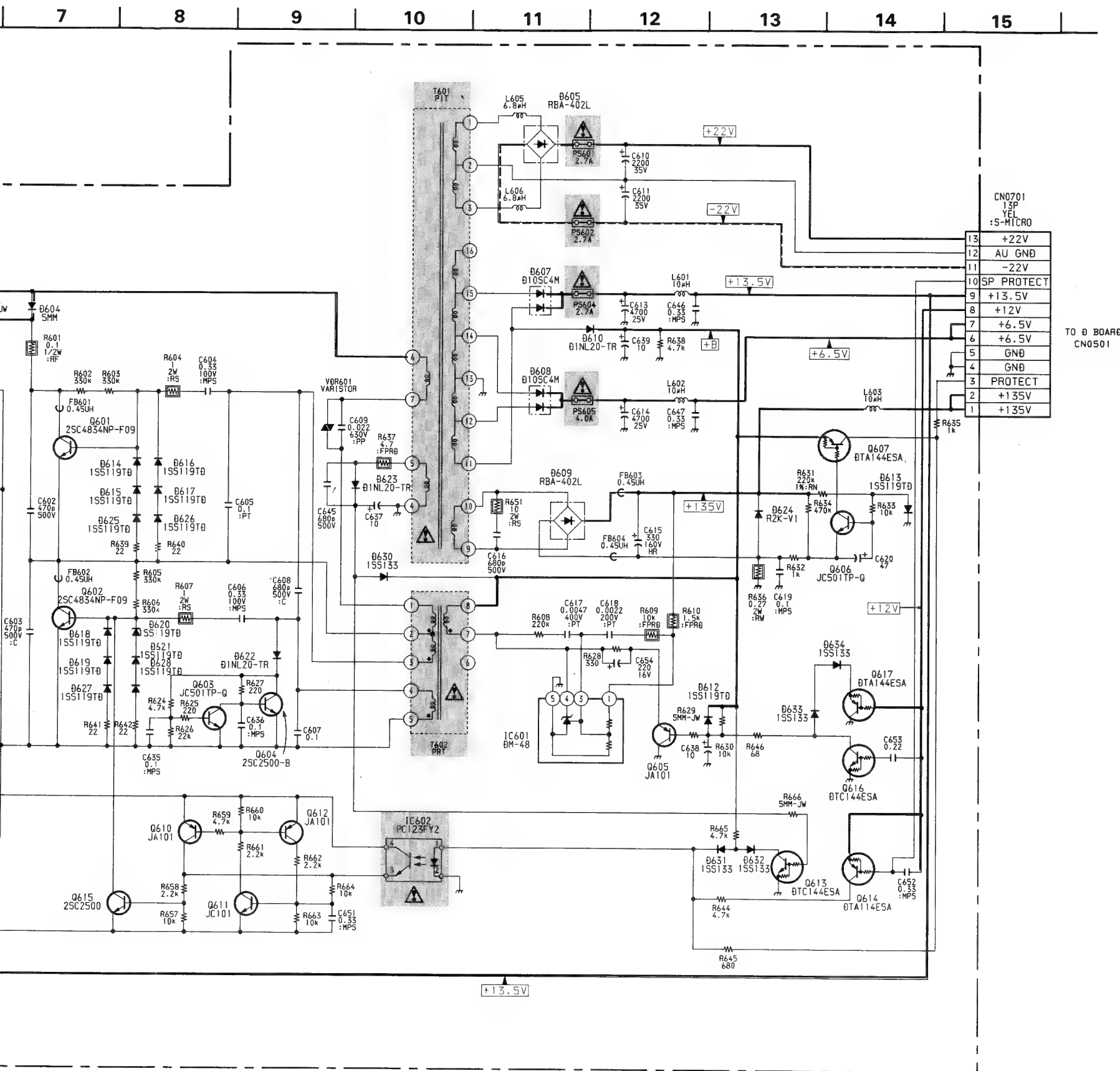
— G Board —



# G BOARD

IC	
IC601	G-5
IC602	E-5
TRANSISTOR	
Q601	B-5
Q602	A-3
Q603	A-3
Q604	A-3
Q605	F-5
Q606	G-4
Q607	G-4
Q608	G-7
Q610	A-6
Q611	A-7
Q612	A-7
Q613	F-4
Q614	E-4
Q615	A-6
Q616	F-5
Q617	F-6
DIODE	
D601	C-7
D602	G-8
D603	F-7
D605	A-2
D607	C-2
D608	D-2
D609	E-3
D610	E-3
D612	F-4
D613	G-5
D614	A-5
D615	A-5
D616	A-5
D617	A-5
D618	B-3
D619	B-4
D620	B-3
D621	B-4
D622	A-3
D623	E-4
D624	F-2
D625	A-5
D626	A-5
D627	B-4
D628	B-4
D630	F-3
D631	E-4
D633	F-6





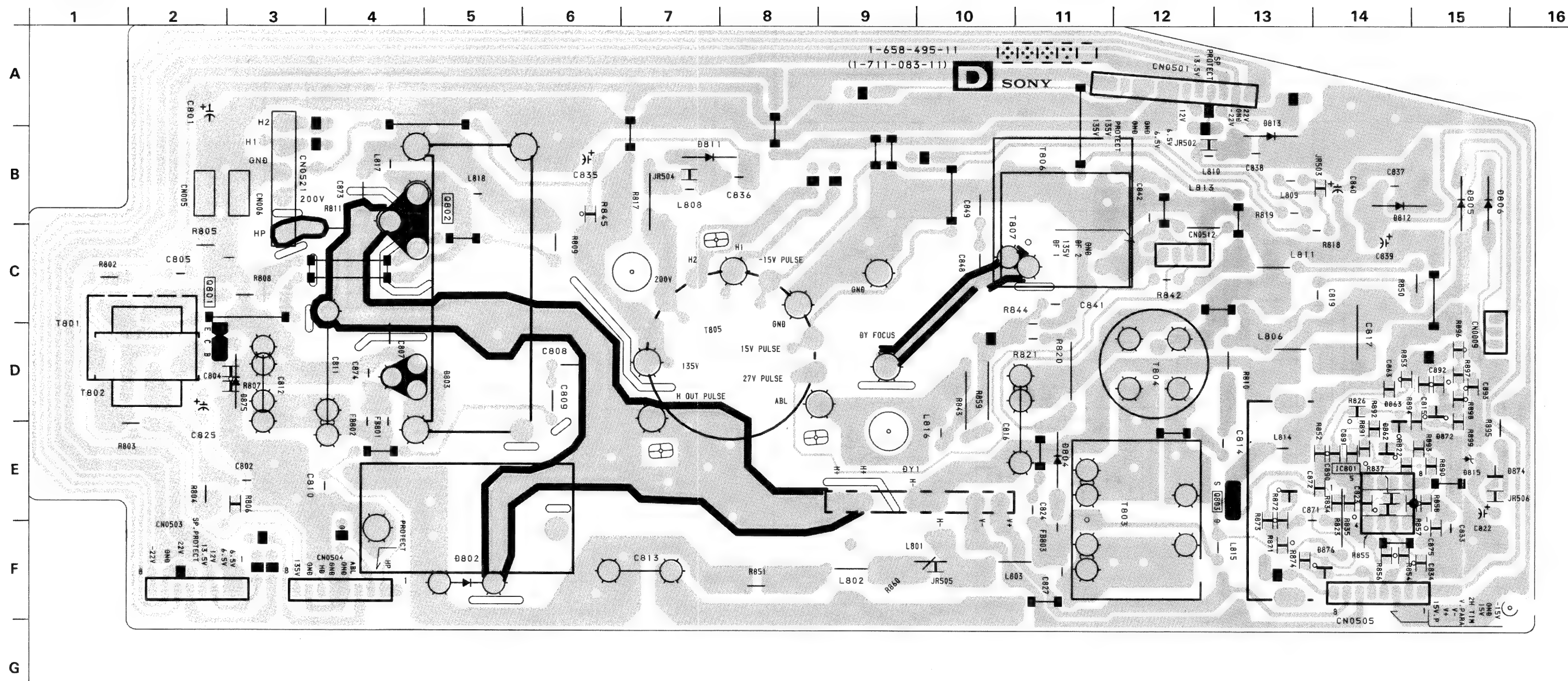
Pin No.	(B) Base	(C) Collector	(E) Emitter
Q601	-1.3	84.5	-0.1
Q602	-86	-0.1	-85
Q603	-84.5	-84.8	-85
Q604	-85.0	-84.3	-85
Q605	13.3	0	10.7
Q606	0.4	13.2	0.2
Q607	13.2	0	13.2
Q608	0	13.5	-0.1
Q610	5.6	1.8	28.0
Q611	-0.8	22.6	-84.0
Q613	9.2	-0.1	0
Q614	13.2	0.4	13.2
Q615	-85.2	-85.0	-84.0
Q616	-0.1	13.3	-0.1



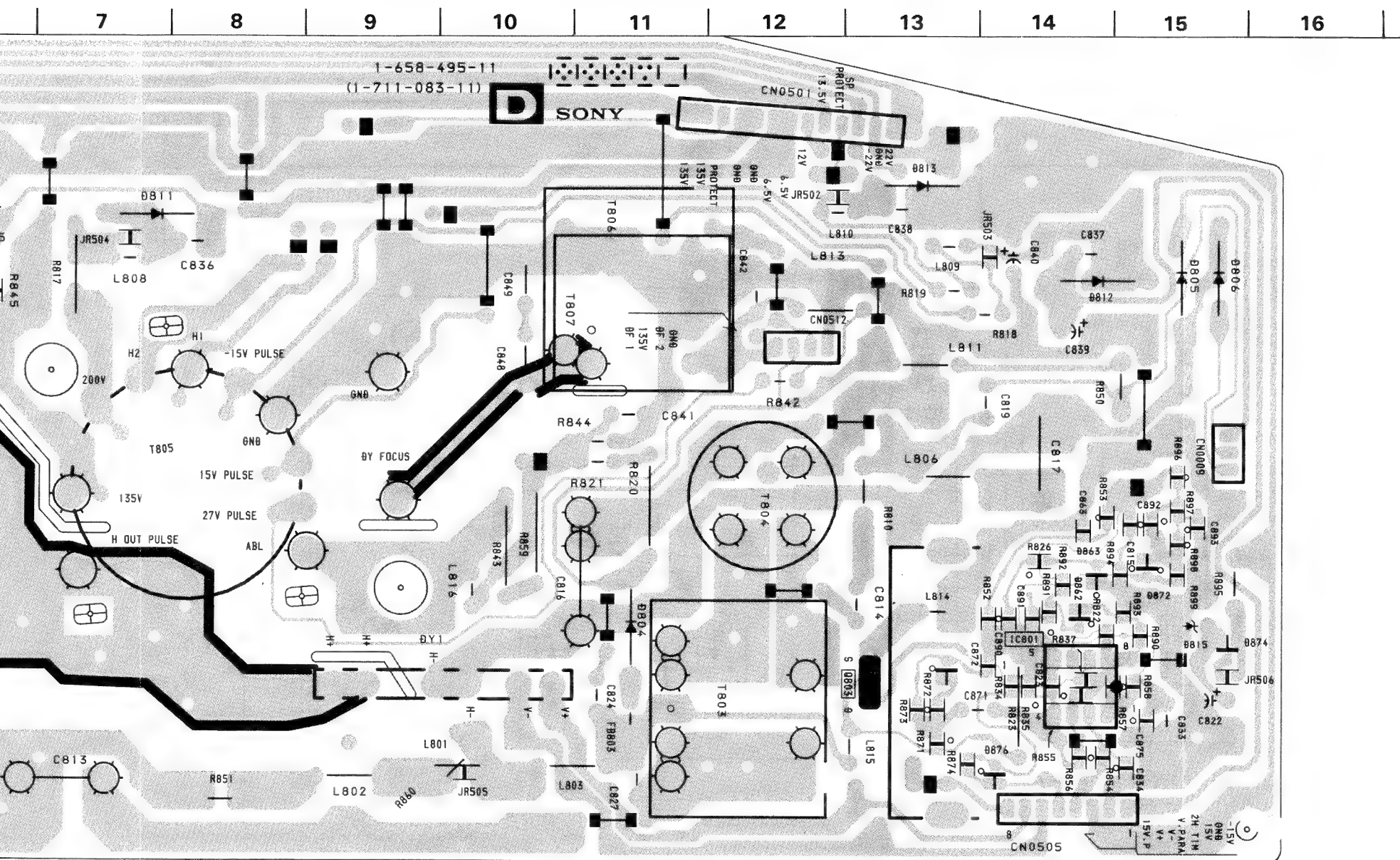
**D**

[H OUT, PIN CORRECT]

— D Board —

**NOTE:**

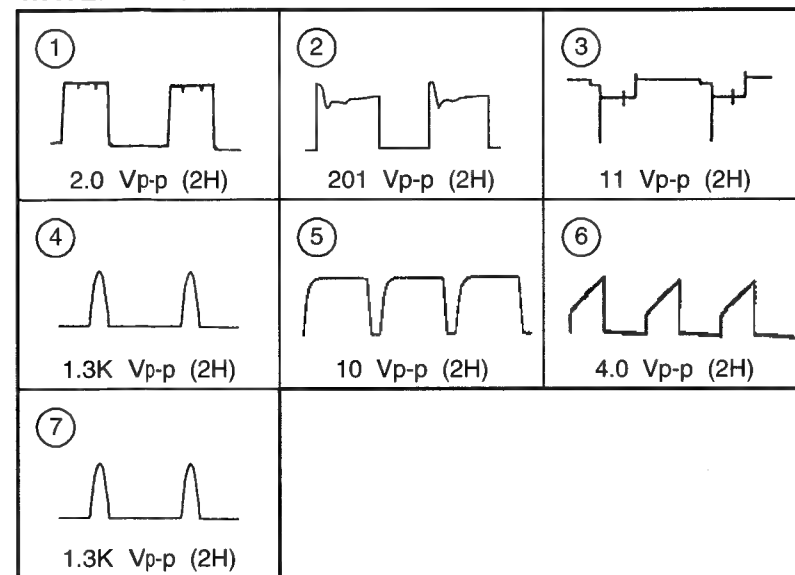
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



## D BOARD

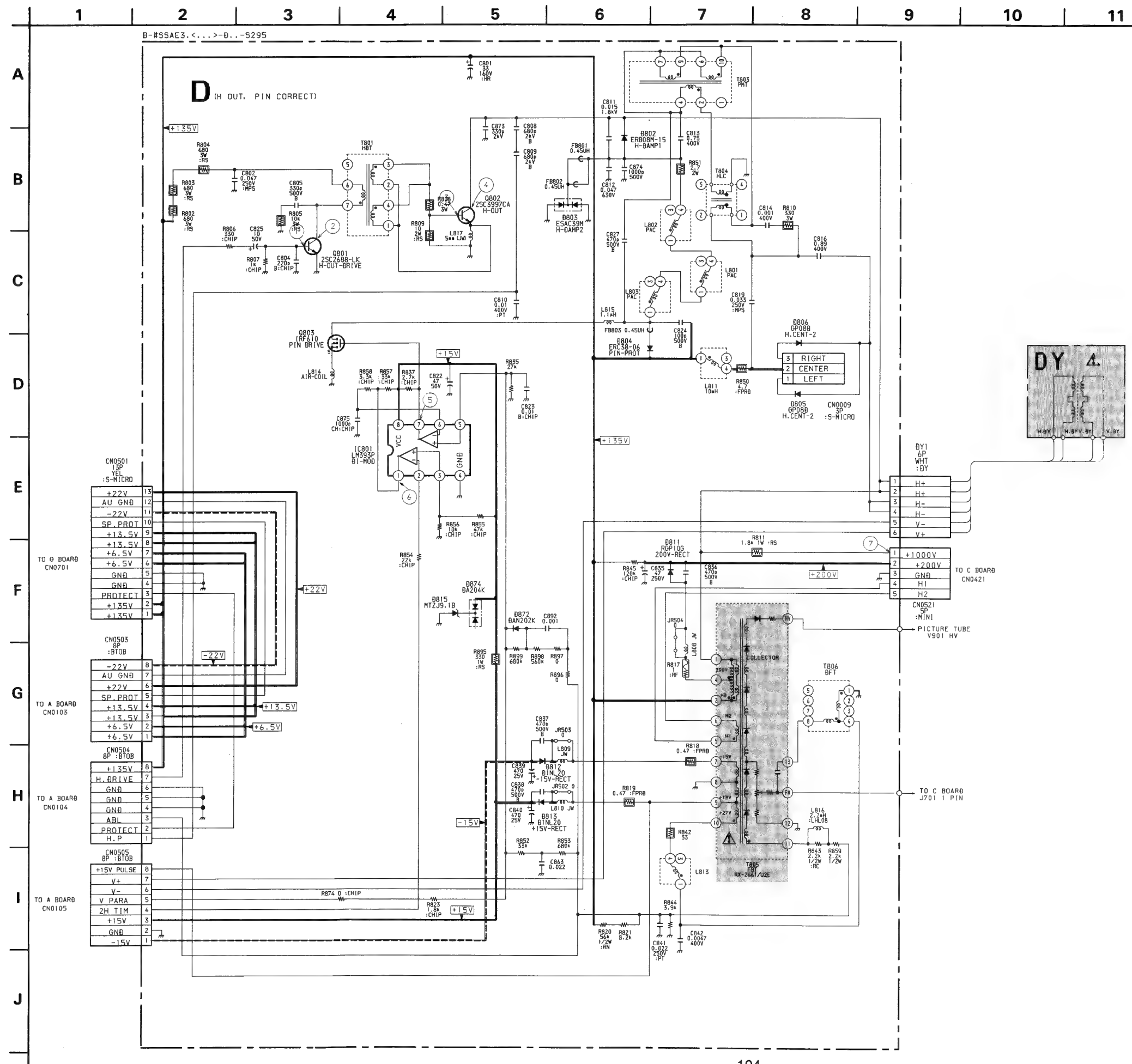
IC	
IC801	E-14
TRANSISTOR	
Q801	C-2
Q802	B-5
Q803	E-13
DIODE	
D802	F-5
D803	D-5
D804	E-11
D805	B-15
D806	B-15
D811	B-7
D812	B-14
D813	A-13
D815	E-15
D872	E-15
D874	E-15

## WAVEFORMS D BOARD



Ref.No.	Pin No.	Voltage (V)
IC801	1	1.2
	2	1.8
	3	1.6
	5	2.6
	6	1.2
	7	7.5
	8	9.5

Pin No. Ref.No.	(B) Base	(C) Collector	(E) Emitter
Q801	-0.5	109	0
Q803	7.5	23.5	0



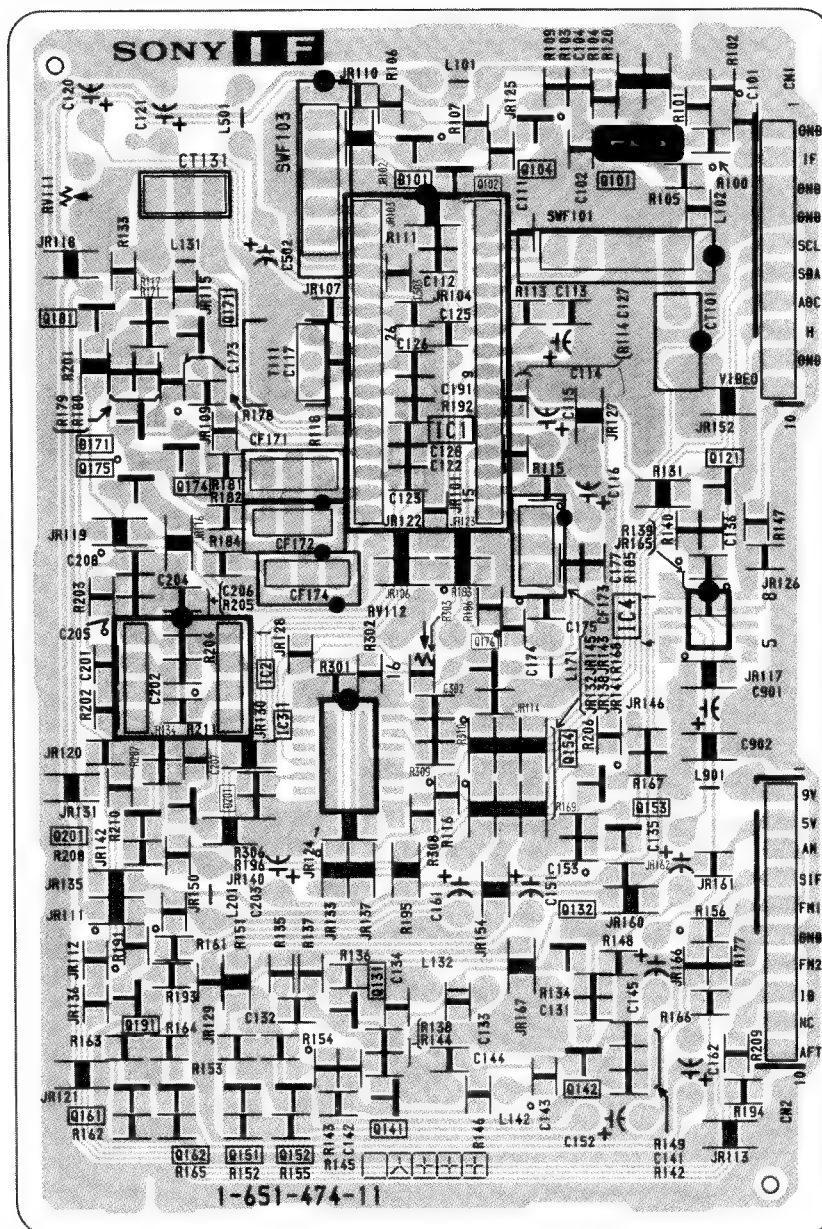




**IF**

[VIF, SIF]

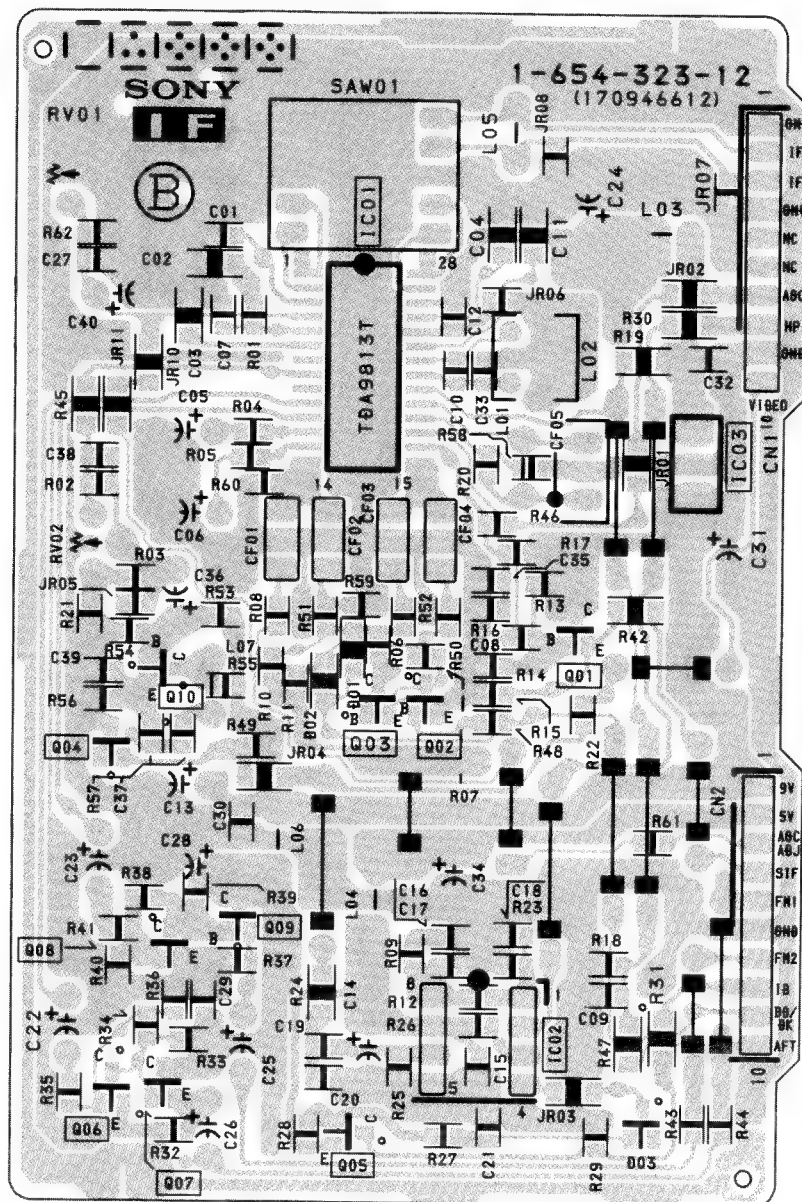
**— IF Board — (KV-S2953B ONLY)**



IF

[VIF, SIF]

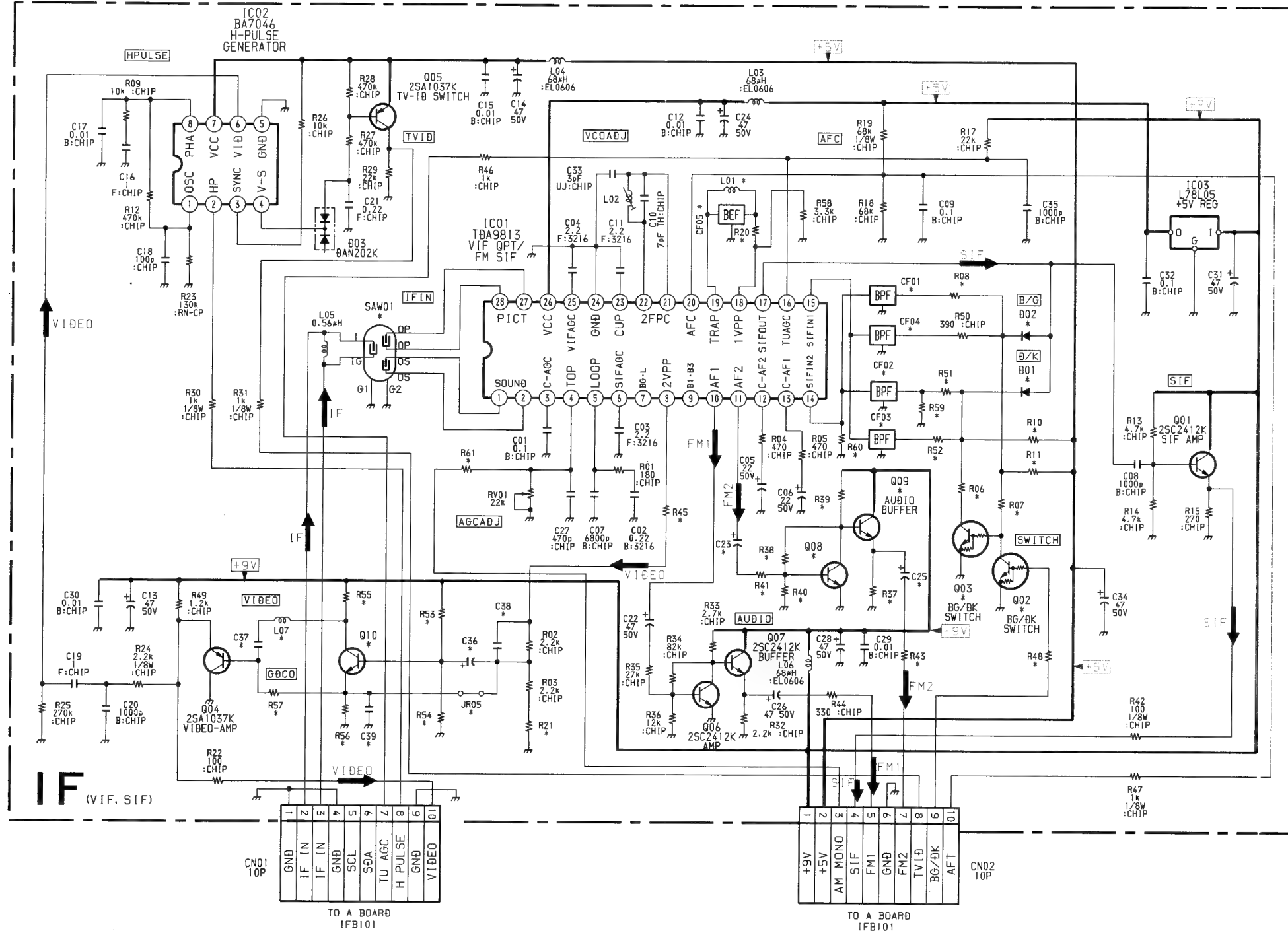
— IF Board — (KV-S2951A, 1D, 3E, 1K, 2U, ONLY)



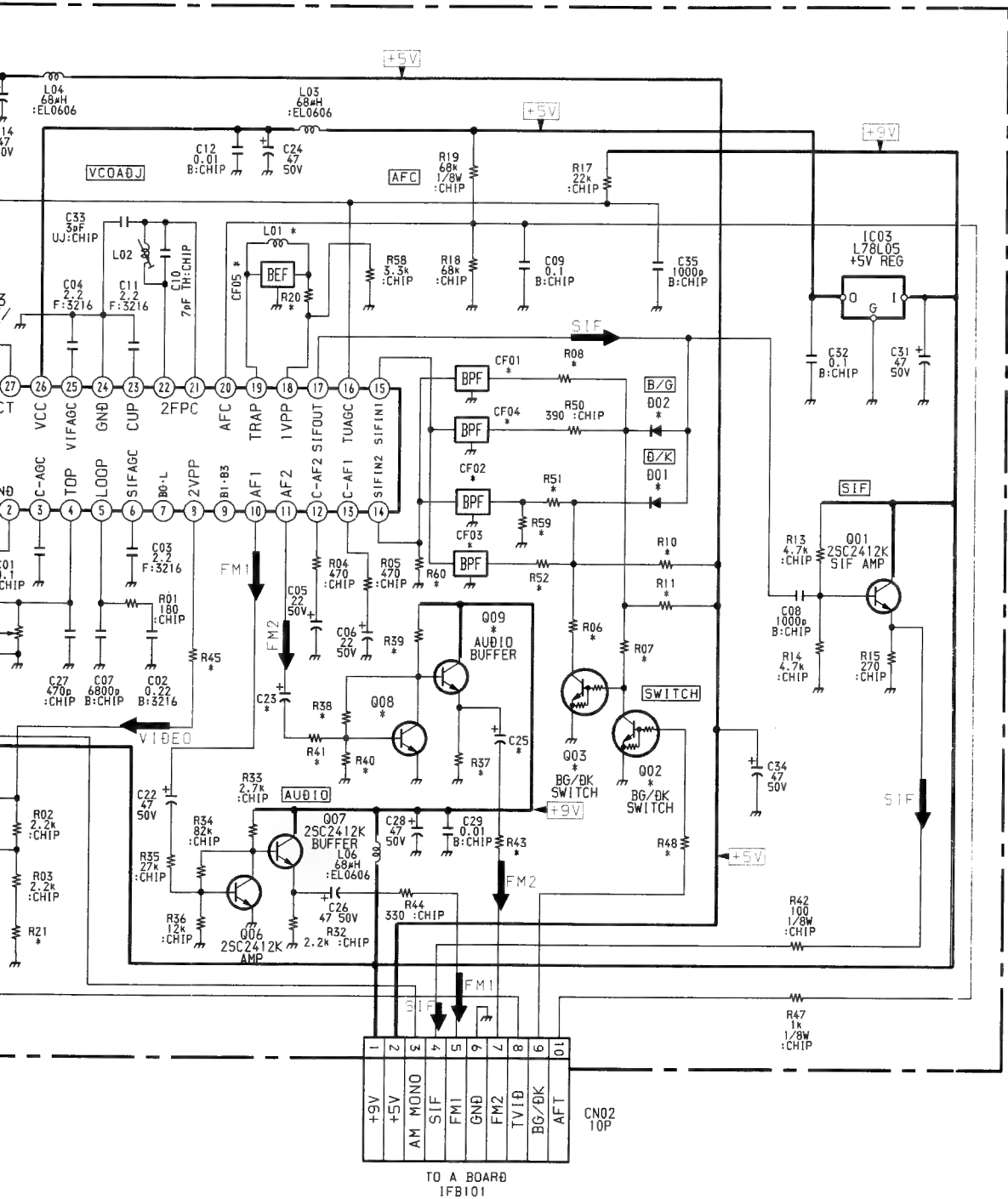


IFH-389WE (KV-S2951A, 1D, 3E ONLY)  
IFH-389EE (KV-S2951K, ONLY)  
IFH-395GB (KV-S2952U ONLY)

B-# IFH389EE/389WE/395GB



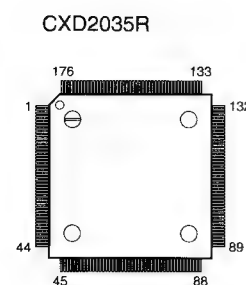
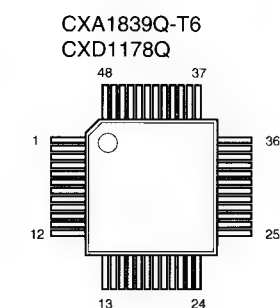
6 7 8 9 10 11 12 13 14 15



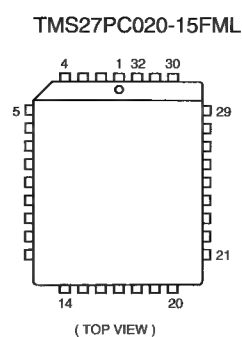
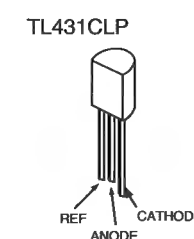
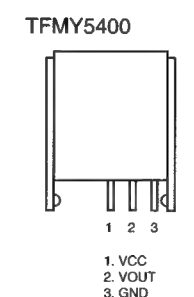
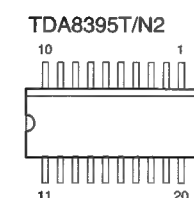
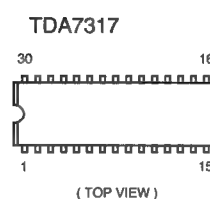
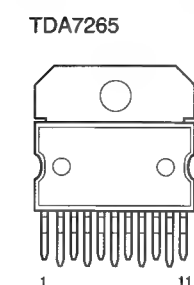
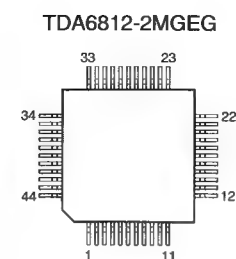
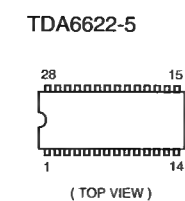
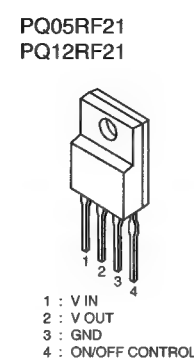
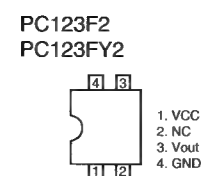
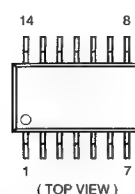
IF BOARD \* MARK

Ref. No.	S2951A	S2951D	S2953E	S2951K	S2952U
C23	47MF 50V	47MF 50V	47MF 50V	47MF 50V	-
C25	47MF 50V	47MF 50V	47MF 50V	47MF 50V	-
C36	-	-	-	220MF 6.3V	-
C37	-	-	-	82PF	-
C38	27PF	27PF	27PF	33PF	47PF
C39	-	-	-	15PF	-
CF01	5.74MHz	5.74MHz	5.74MHz	5.74MHz	-
CF02	-	-	-	6.25MHz	-
CF03	6.5MHz	6.5MHz	6.5MHz	6.5MHz	-
CF04	5.5MHz	5.5MHz	5.5MHz	5.5MHz	6.0MHz
CF05	5.5MHz	5.5MHz	5.5MHz	5.5MHz	6.0MHz
D01	MA73-TX	MA73-TX	MA73-TX	MA73-TX	-
D02	MA73-TX	MA73-TX	MA73-TX	MA73-TX	0: CHIP
L01	10UH	10UH	10UH	6.8UH	8.2UH
L07	-	-	-	8.2UH	-
Q02	DTC144EK	DTC144EK	DTC144EK	DTC144EK	-
Q03	DTC144EK	DTC144EK	DTC144EK	DTC144EK	-
Q08	2SC2412K	2SC2412K	2SC2412K	2SC2412K	-
Q09	2SC2412K	2SC2412K	2SC2412K	2SC2412K	-
Q10	-	-	-	2SC2412K	-
JR5	0: CHIP	0: CHIP	0: CHIP	-	0: CHIP
R06	5.6K	5.6K	5.6K	5.6K	-
R07	5.6K	5.6K	5.6K	5.6K	-
R08	390	390	390	390	-
R10	22K	22K	22K	22K	-
R11	22K	22K	22K	22K	-
R20	220	220	220	180	180
R21	1K	1K	1K	3.3K	1.8K
R37	2.2K	2.2K	2.2K	2.2K	-
R38	82K	82K	82K	82K	-
R39	2.7K	2.7K	2.7K	2.7K	-
R40	12K	12K	12K	12K	-
R41	27K	27K	27K	27K	-
R43	330	330	330	330	-
R45	1K	1K	1K	680	1K
R48	1K	1K	1K	1K	-
R51	-	-	-	390	-
R52	390	390	390	390	-
R53	-	-	-	27K	-
R54	-	-	-	12K	-
R55	-	-	-	680	-
R56	-	-	-	680	-
R57	0: CHIP	0: CHIP	0: CHIP	560	0: CHIP
R59	-	-	-	470	-
R60	-	-	-	-	5.6K
R61	100	100	100	-	100
SAW01	K3350	K3350	K3350	K3350	J3352K

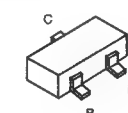
## 5-4. SEMICONDUCTORS



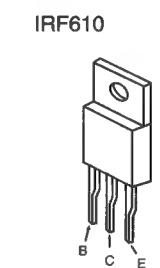
LA7217M  
MC74HC04AF  
MC74HC74AF  
MC74HCU04F  
SN74HC04ANS  
SN74HC08ANS  
SN74HC74ANS  
SN74HC86ANS



DTA114EK  
DTC114EK  
DTC124EKA-T146  
DTC144EKA-T146



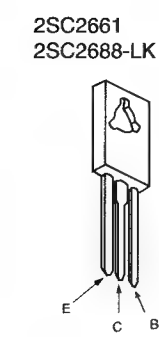
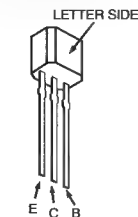
DTA144ESA  
DTC144ESA



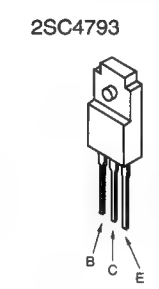
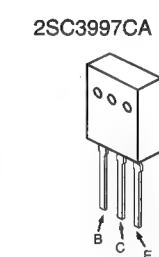
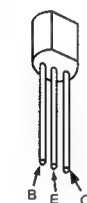
JA101  
JC501  
2SA1091-O  
2SA1207  
2SA1837



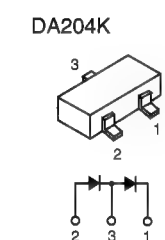
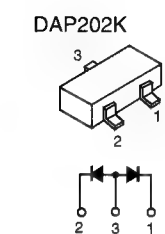
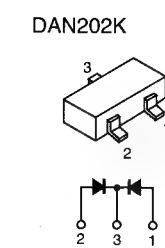
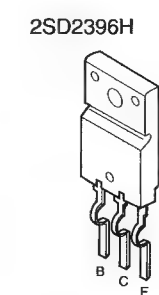
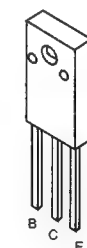
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2SC2785-HFE



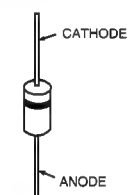
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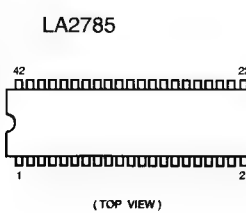
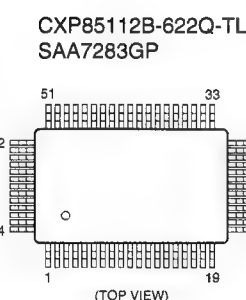
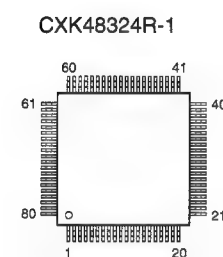
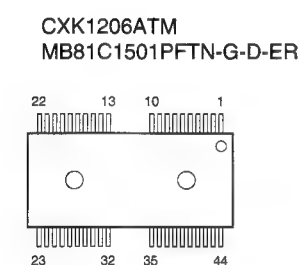
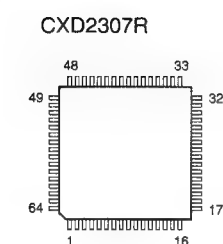
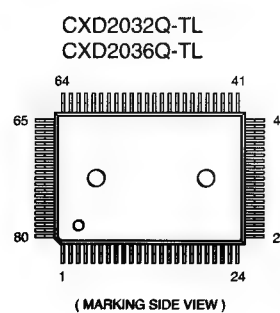
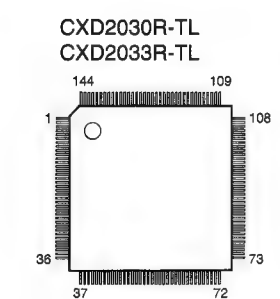
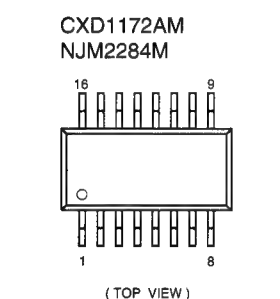
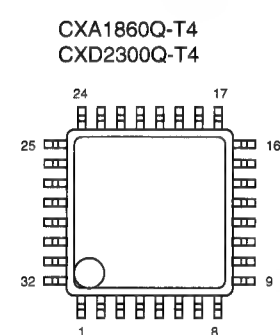
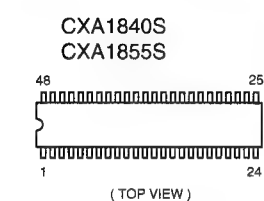
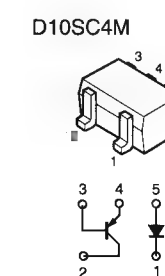
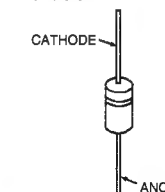
2SC4834NP-F09



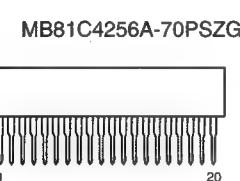
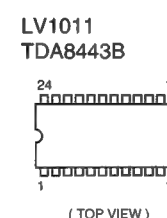
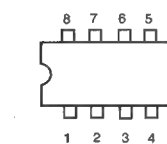
D1NL20  
GP08D  
RGP02-20EL-6394  
RGP10G



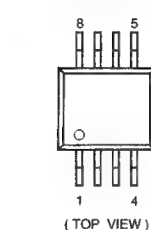
D1N20R  
MTZJ-T-77-9.1  
MTZJ-T-77-9.1A  
MTZJ-5.6B  
MTZJ-6.8B  
MTZJ-9.1B  
MTZJ-15B  
MTZJ-33C



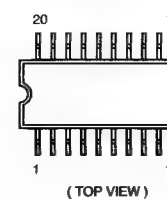
LM393P  
M5216P  
SDA9086-5  
ST24C16CB1  
TDA2822M  
TEA2114



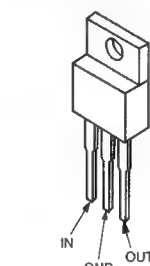
MC14577CFEL  
X24164SIC7000  
μPC358G2



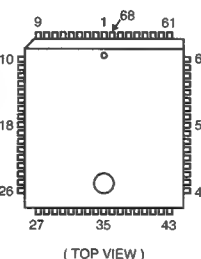
MC74F244M  
TDA8395T



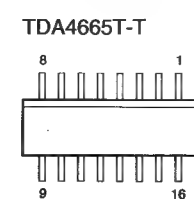
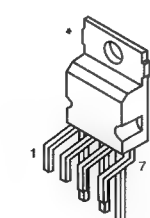
PQ09RE11  
TEA7605



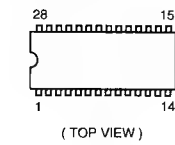
SDA30C164-2GEG  
SDA5273P-C26-GEG  
SDA9205-2GEG



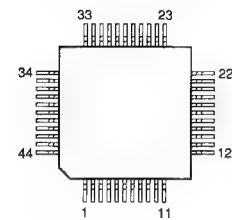
STV9379



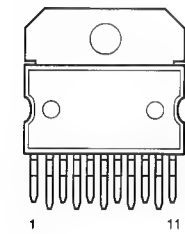
TDA6622-5



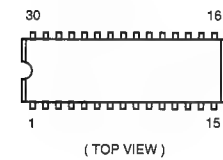
TDA6812-2MGEG



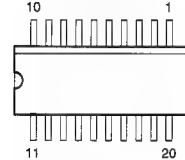
TDA7265



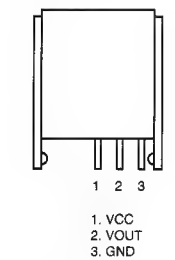
TDA7317



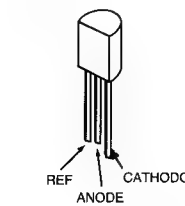
TDA8395T/N2



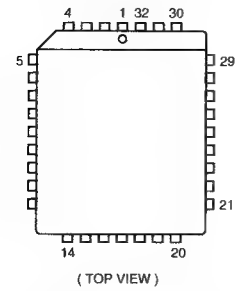
TFMY5400



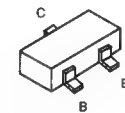
TL431CLP



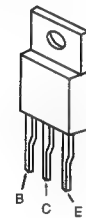
TMS27PC020-15FML



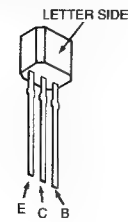
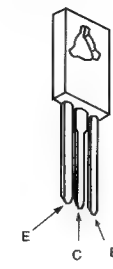
DTA114EK 2SA1037K  
DTC114EK 2SA1162-G  
DTC124EKA-T146 2SC2412K  
DTC144EKA-T146 2SC2412K-QR

DTA144ESA  
DTC144ESA

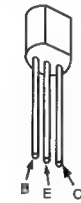
IRF610



JA101 2SA733-K  
JC501 2SA933S-R  
2SA1091-O 2SC1740S-R  
2SA1207 2SC2500-B  
2SA1837 2SC2551-O

2SC2603-F  
2SC2785-HFE2SC2661  
2SC2688-LK

2SC3779C,D-AA



2SC3997CA



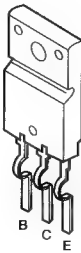
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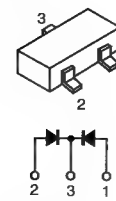
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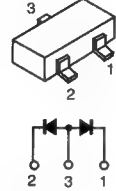
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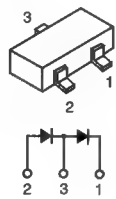
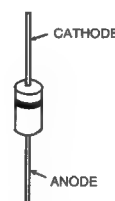
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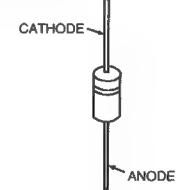
DAP202K



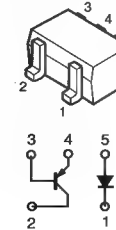
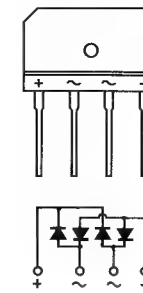
DA204K

D1NL20  
GP08D  
RGP02-20EL-6394  
RGP10G

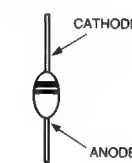
D1N20R MTZJ-39  
MTZJ-T-77-9.1 RD39ESB2  
MTZJ-T-77-9.1A RD5.6ESB2  
MTZJ-5.6B RD6.8ESB2  
MTZJ-6.8B RD9.1ESB2  
MTZJ-9.1B 1SS119-25  
MTZJ-15B 1SS133T-77  
MTZJ-33C



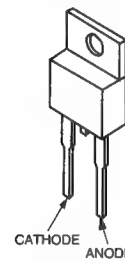
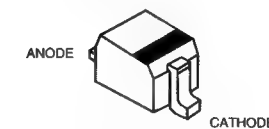
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D4SB60L  
RBA-402L

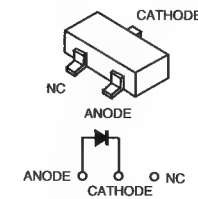
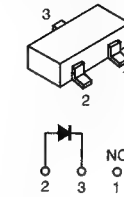
ERC38-06



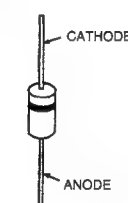
ERD08M-15

ESAC39M-06CF38  
ESAD39M-06CHVU359TRF  
MA110  
1SV214

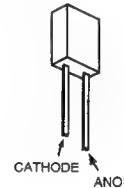
MA3030H (TX)

MA3039H  
MA3051M-TX  
MA3056M  
MA3082M-TX  
MA3091  
RB411D  
RD5.1M-B2  
RD5.6M-B2

R2K-V1



LD201VR





## SECTION 6

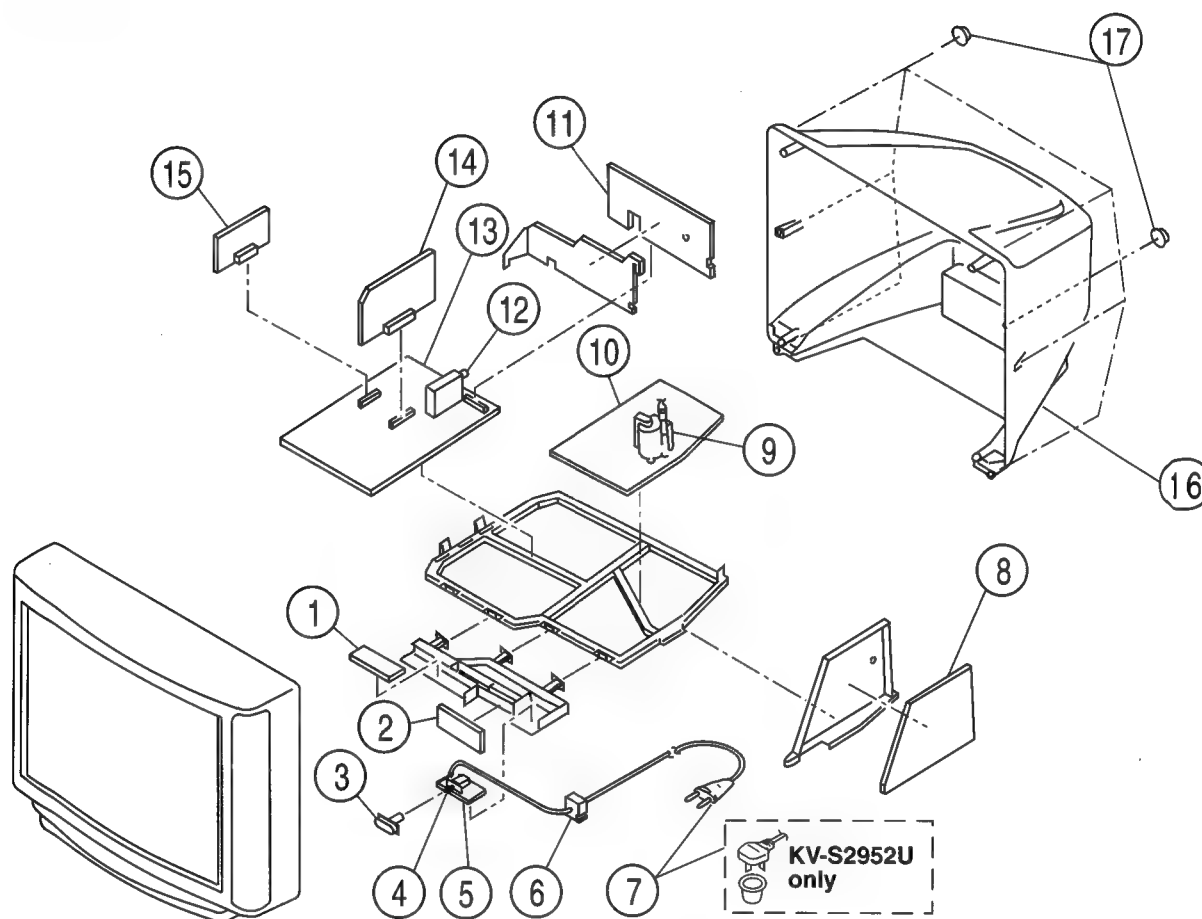
### EXPLODED VIEWS





**NOTE :**

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

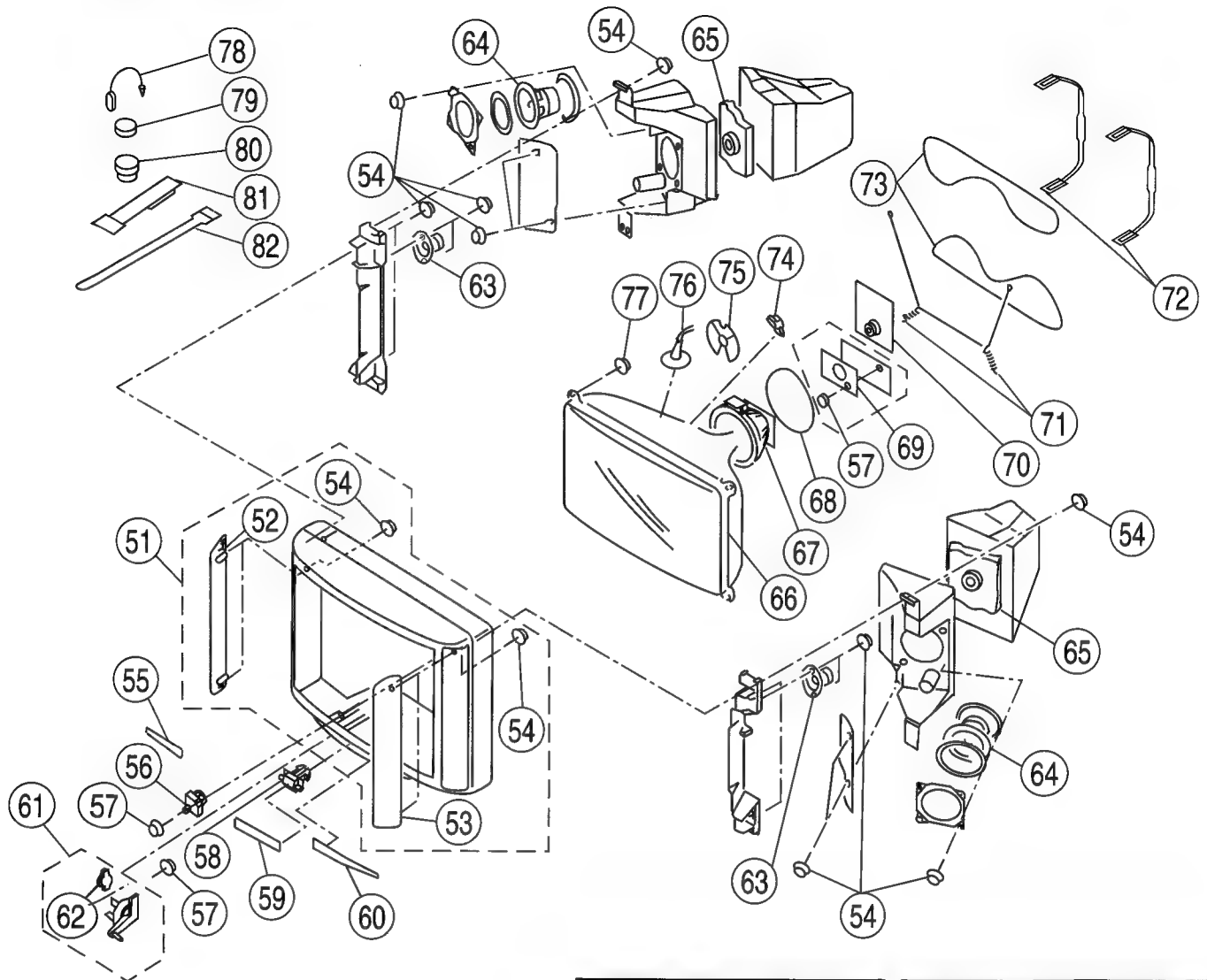
The components identified by shading and marked  are critical for safety. Replace only with the part number specified.


Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**6-1. CHASSIS**


REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*A-1646-101-A	H1 BOARD, COMPLETE		10	*A-1640-183-A	D BOARD, COMPLETE	
2	*A-1646-100-A	H2 BOARD, COMPLETE		11	*A-1651-074-A	J BOARD, COMPLETE	
3	4-202-124-01	BUTTON, POWER		12	1-693-315-11	TUNER (UV1316)	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)
4	 1-571-433-21	SWITCH, PUSH (AC POWER)			1-693-314-11	TUNER (U1344)	(KV-S2952U)
5	*A-1624-053-A	F1 BOARD, COMPLETE		13	*A-1632-297-A	A BOARD, COMPLETE	(KV-S2951A/S2951D)
6	4-038-615-01	HOLDER, AC CORD			*A-1632-347-A	A BOARD, COMPLETE	(KV-S2953B)
7	 1-751-680-11	CORD, POWER (WITH NOISE FILTER)			*A-1632-348-A	A BOARD, COMPLETE	(KV-S2953E)
		2.5A/250V (KV-S2951A/S2953B/S2951D/S2953E/S2951K)			*A-1632-349-A	A BOARD, COMPLETE	(KV-S2951K)
	 1-590-762-11	CORD, POWER (WITH PLUG)			*A-1632-346-A	A BOARD, COMPLETE	(KV-S2952U)
		2.5A/250V (KV-S2952U)		14	*A-1620-064-A	E BOARD, COMPLETE	
8	*A-1636-010-A	G BOARD, COMPLETE		15	*A-1630-370-A	A1 BOARD, COMPLETE	
9	 1-453-187-11	TRANSFORMER ASSY, FLYBACK	(NX-2461/U2R)	16	4-202-146-22	COVER, REAR	
				17	4-039-358-01	SCREW (4X16), (+) BV TAPPING	

## 6-2. PICTURE TUBE



The components identified by shading and marked  are critical for safety.

Replace only with the part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité.


Ne les remplacer que par une pièce portant le numéro spécifié.


REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	X-4200-149-1	BEZNET ASSY	52 - 54	66	1-733-856-05	PICTURE TUBE (SD-269) (M681CT60X)	
52	4-202-629-01	GRILLE (L), SPEAKER		67	1-451-466-11	DEFLECTION YOKE (Y29GHC28)	
53	4-202-628-01	GRILLE (R), SPEAKER		68	1-452-724-11	COIL, NA ROTATION (RT-545)	
54	4-039-358-01	SCREW (4X16), (+) BV TAPPING		69	*A-1644-065-A	VM BOARD, COMPLETE	
55	4-202-127-81	PLATE, ORNAMENTAL		70	*A-1638-071-A	C BOARD, COMPLETE	
		(KV-S2951A/S2951D/S2951K)		71	4-369-318-51	SPRING, TENSION	
	4-202-127-91	PLATE, ORNAMENTAL		72	4-202-749-01	HOLDER, DGC (29")	
		(KV-S2953B/S2953E/S2952U)		73	1-406-807-11	COIL, DEGAUSSING	
56	4-036-881-01	LOCK ASSY, DOOR		74	3-704-495-01	SPACER, DY	
57	4-039-356-11	SCREW (3X12), (+) BV TAPPING		75	*4-202-554-01	HOLDER, HV CABLE	
58	4-202-555-01	SHAFT, DOOR		76	1-540-006-22	CAP ASSY, HIGH-VOLTAGE	
59	4-202-125-01	DOOR		77	4-203-043-01	SCREW (PT)	
60	4-202-123-01	WINDOW, ORNAMENTAL		78	4-308-870-00	CLIP, LEAD WIRE	
61	X-4030-459-1	DAMPER, ASSY		79	1-452-032-00	MAGNET, DISK; 10MM Ø	
62	4-036-880-11	DAMPER		80	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
63	1-504-121-21	SPEAKER (SQUAWKER) (5CM)		81	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
64	1-504-145-11	SPEAKER (12CM)		82	3-701-007-00	BAND, BINDING	
65	4-200-630-01	CUSHION, FOOT					



## SECTION 7

### ELECTRICAL PARTS LIST

The components identified by shading and marked  are critical for safety.  
Replace only with the part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

#### RESISTORS

When indicating parts by reference number, please include the board name.

#### CAPACITORS

MF : mF , PF : mmF

#### COILS

MMH : mH,  $\mu$ H : mH

B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1620-064-A B BOARD, COMPLETE *****				C321	1-163-038-91	CERAMIC CHIP 0.1MF	25V
< CAPACITOR >				C322	1-104-664-11	ELECT 47MF	20% 25V
C01	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C323	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C02	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C324	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C03	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C325	1-104-664-11	ELECT 47MF	20% 25V
C04	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C326	1-126-933-11	ELECT 100MF	20% 16V
C05	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C327	1-126-933-11	ELECT 100MF	20% 16V
C06	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C328	1-126-933-11	ELECT 100MF	20% 16V
C07	1-104-664-11	ELECT 47MF	20% 25V	C329	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C08	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C330	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C09	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C331	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C10	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C332	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C11	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C333	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C12	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C334	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C14	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C335	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C15	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C336	1-163-096-00	CERAMIC CHIP 13PF	5% 50V
C16	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C337	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C17	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C338	1-104-664-11	ELECT 47MF	20% 25V
C18	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C339	1-126-964-11	ELECT 10MF	20% 50V
C19	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C340	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C20	1-163-124-00	CERAMIC CHIP 200PF	5% 50V	C341	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C21	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	C342	1-126-964-11	ELECT 10MF	20% 50V
C22	1-104-664-11	ELECT 47MF	20% 25V	C343	1-126-964-11	ELECT 10MF	20% 50V
C23	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C344	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C301	1-163-111-00	CERAMIC CHIP 56PF	5% 50V	C501	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C302	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C502	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C303	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C503	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C304	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C504	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C305	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C505	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C306	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C506	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C307	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C507	1-104-664-11	ELECT 47MF	20% 25V
C308	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C508	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C309	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C509	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C310	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C510	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C311	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C511	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C312	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C513	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C313	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C514	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C315	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C515	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C316	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	C516	1-162-568-11	CERAMIC CHIP 0.33MF	10% 16V
C317	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C517	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C318	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C518	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C319	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C519	1-124-902-00	ELECT 0.47MF	20% 50V
C320	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C520	1-163-038-91	CERAMIC CHIP 0.1MF	25V
				C522	1-163-038-91	CERAMIC CHIP 0.1MF	25V
				C525	1-163-038-91	CERAMIC CHIP 0.1MF	25V

B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C527	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1325	1-126-964-11	ELECT 10MF	20% 50V
C528	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1326	1-126-964-11	ELECT 10MF	20% 50V
C530	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C1327	1-126-964-11	ELECT 10MF	20% 50V
C531	1-104-664-11	ELECT 47MF	20% 25V	C1328	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C532	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1329	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C533	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1330	1-126-964-11	ELECT 10MF	20% 50V
C534	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1331	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C536	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1332	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C537	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1333	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C538	1-104-664-11	ELECT 47MF	20% 25V	C1334	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C539	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1335	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C540	1-104-664-11	ELECT 47MF	20% 25V	C1336	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C541	1-104-664-11	ELECT 47MF	20% 25V	C1337	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C542	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1338	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C543	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1339	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C544	1-104-664-11	ELECT 47MF	20% 25V	C1340	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C545	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1341	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C546	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1342	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C547	1-126-924-11	ELECT 330MF	20% 10V	C1343	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C548	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1344	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C553	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1345	1-126-964-11	ELECT 10MF	20% 50V
C556	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1346	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C557	1-163-111-00	CERAMIC CHIP 56PF	5% 50V	C1347	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C558	1-163-111-00	CERAMIC CHIP 56PF	5% 50V	C1348	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C559	1-163-111-00	CERAMIC CHIP 56PF	5% 50V	C1349	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C560	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1350	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C561	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1351	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C563	1-104-664-11	ELECT 47MF	20% 25V	C1352	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C571	1-126-964-11	ELECT 10MF	20% 50V	C1353	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C572	1-163-101-00	CERAMIC CHIP 22PF	5% 50V	C1402	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C573	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C1404	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C574	1-104-664-11	ELECT 47MF	20% 25V	C1405	1-126-964-11	ELECT 10MF	20% 50V
C575	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1406	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C576	1-124-903-11	ELECT 1MF	20% 50V	C1408	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C577	1-164-343-11	CERAMIC CHIP 0.056MF	10% 25V	C1409	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C578	1-163-139-00	CERAMIC CHIP 820PF	5% 50V	C1410	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C579	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	C1411	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1301	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C1412	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C1302	1-126-964-11	ELECT 10MF	20% 50V	C1413	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C1303	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1415	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C1304	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C1416	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C1306	1-126-964-11	ELECT 10MF	20% 50V	C1418	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
C1307	1-126-964-11	ELECT 10MF	20% 50V	C1420	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1308	1-126-964-11	ELECT 10MF	20% 50V	C1421	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1309	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C1422	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C1310	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C1424	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1311	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1425	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V
C1312	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1426	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1313	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C1427	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1314	1-126-964-11	ELECT 10MF	20% 50V	C1428	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1315	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C1429	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1316	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1430	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1317	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C1431	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1318	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1432	1-104-664-11	ELECT 47MF	20% 25V
C1319	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1443	1-104-664-11	ELECT 47MF	20% 25V
C1320	1-164-004-91	CERAMIC CHIP 0.022MF	10% 25V	C1444	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1321	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C1445	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1322	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C1446	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1323	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	C1447	1-104-664-11	ELECT 47MF	20% 25V
C1324	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	C1448	1-104-664-11	ELECT 47MF	20% 25V

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1449	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC507	8-759-925-74	IC SN74HC04ANS	
C1450	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC571	8-759-083-11	IC LA7217M	
C1451	1-126-964-11	ELECT 10MF	20%	IC1301	8-759-368-89	IC TDA8395T/N2	
C1452	1-163-031-11	CERAMIC CHIP 0.01MF	50V	IC1302	8-752-070-58	IC CXA1860Q-T4	
C1453	1-163-031-11	CERAMIC CHIP 0.01MF	50V	IC1303	8-759-368-89	IC TDA8395T/N2	
C1454	1-104-664-11	ELECT 47MF	20%	IC1304	8-752-070-58	IC CXA1860Q-T4	
C1455	1-163-117-00	CERAMIC CHIP 100PF	5%	IC1305	8-759-032-11	IC MC74HC04AF	
C1456	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC1306	8-759-032-11	IC MC74HC04AF	
C1457	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC1401	8-752-370-86	IC CXD2033R-TL	
C1458	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC1402	8-759-032-23	IC MC74HC74AF	
C1459	1-126-964-11	ELECT 10MF	20%	IC1403	8-759-362-96	IC MB81C1501PFTN-G-D-ER	
C1460	1-104-664-11	ELECT 47MF	20%	IC1406	8-759-239-23	IC TC74HC86AF	
C1461	1-163-031-11	CERAMIC CHIP 0.01MF	50V				
C1462	1-163-038-91	CERAMIC CHIP 0.1MF	25V				
< CONNECTOR >				< COIL >			
CN0302	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P		L01	1-408-397-00	INDUCTOR 1UH	
< DIODE >				L02	1-408-397-00	INDUCTOR 1UH	
D01	8-719-914-44	DIODE DAP202K		L301	1-408-403-00	INDUCTOR 3.3UH	
D301	8-719-031-68	DIODE HVU359TRF		L302	1-408-403-00	INDUCTOR 3.3UH	
D302	8-719-031-68	DIODE HVU359TRF		L303	1-408-403-00	INDUCTOR 3.3UH	
D303	8-719-404-46	DIODE MA110		L304	1-414-248-11	INDUCTOR 2.2UH	
D1301	8-719-404-46	DIODE MA110		L305	1-414-248-11	INDUCTOR 2.2UH	
D1302	8-719-914-43	DIODE DAN202K		L306	1-408-403-00	INDUCTOR 3.3UH	
D1303	8-719-914-43	DIODE DAN202K		L307	1-408-397-00	INDUCTOR 1UH	
D1304	8-719-914-43	DIODE DAN202K		L308	1-408-397-00	INDUCTOR 1UH	
D1307	8-719-404-46	DIODE MA110		L501	1-408-397-00	INDUCTOR 1UH	
D1308	8-719-404-46	DIODE MA110		L502	1-408-397-00	INDUCTOR 1UH	
D1309	8-719-914-43	DIODE DAN202K		L503	1-414-243-11	INDUCTOR 1UH	
D1401	8-719-031-68	DIODE HVU359TRF		L504	1-414-243-11	INDUCTOR 1UH	
D1402	8-719-031-68	DIODE HVU359TRF		L505	1-414-243-11	INDUCTOR 1UH	
D1403	8-719-404-46	DIODE MA110		L506	1-408-397-00	INDUCTOR 1UH	
< ENCAPSULATED FILTER >				L507	1-408-397-00	INDUCTOR 1UH	
FL01	1-233-446-11	FILTER, LOW PASS		L508	1-408-397-00	INDUCTOR 1UH	
FL02	1-233-438-11	FILTER, LOW PASS		L509	1-408-397-00	INDUCTOR 1UH	
FL03	1-233-438-11	FILTER, LOW PASS		L512	1-408-405-00	INDUCTOR 4.7UH	
FL301	1-236-620-11	FILTER, LOW PASS		L513	1-408-405-00	INDUCTOR 4.7UH	
FL302	1-236-620-11	FILTER, LOW PASS		L1301	1-414-196-11	INDUCTOR 47UH	
FL352	1-233-436-11	FILTER, LOW PASS		L1401	1-408-403-00	INDUCTOR 3.3UH	
FL353	1-233-435-11	FILTER, LOW PASS		L1402	1-414-248-11	INDUCTOR 2.2UH	
FL355	1-233-436-11	FILTER, LOW PASS		L1404	1-414-248-11	INDUCTOR 2.2UH	
FL1301	1-233-434-11	FILTER, LOW PASS		L1405	1-408-403-00	INDUCTOR 3.3UH	
FL1302	1-233-434-11	FILTER, LOW PASS		L1406	1-408-403-00	INDUCTOR 3.3UH	
< IC >				L1408	1-408-403-00	INDUCTOR 3.3UH	
IC01	8-752-338-46	IC CXD1178Q		L1409	1-408-403-00	INDUCTOR 3.3UH	
IC02	8-752-370-87	IC CXD2035R		L1410	1-408-403-00	INDUCTOR 3.3UH	
IC04	8-752-359-55	IC CXK48324R		L1411	1-408-397-00	INDUCTOR 1UH	
IC05	8-752-359-55	IC CXK48324R		L1412	1-408-401-00	INDUCTOR 2.2UH	
IC06	8-759-362-96	IC MB81V1501PFTN-G-D-ER		< TRANSISTOR >			
IC07	8-752-376-16	IC CXD2036Q-TL		Q01	8-729-216-22	TRANSISTOR 2SA1162-G	
IC301	8-752-357-86	IC CXD2300Q-T4		Q02	8-729-216-22	TRANSISTOR 2SA1162-G	
IC302	8-752-370-77	IC CXD2030R-TL		Q03	8-729-216-22	TRANSISTOR 2SA1162-G	
IC501	8-759-925-76	IC SN74HC08ANS		Q04	8-729-216-22	TRANSISTOR 2SA1162-G	
IC502	8-752-370-85	IC CXD2032Q-TL		Q05	8-729-216-22	TRANSISTOR 2SA1162-G	
IC503	8-752-357-62	IC CXD2307R		Q06	8-729-216-22	TRANSISTOR 2SA1162-G	
IC504	8-759-350-07	IC SDA9205-2GEG		Q301	8-729-216-22	TRANSISTOR 2SA1162-G	
IC505	8-759-034-91	IC MC74F244M		Q302	8-729-216-22	TRANSISTOR 2SA1162-G	
IC506	8-759-034-91	IC MC74F244M		Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q304	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q305	8-729-216-22	TRANSISTOR 2SA1162-G	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q306	8-729-920-74	TRANSISTOR 2SC2412K-QR		R26	1-216-655-11	METAL CHIP 1.5K 0.50% 1/10W	
Q307	8-729-920-74	TRANSISTOR 2SC2412K-QR		R27	1-216-047-91	METAL GLAZE 820 5% 1/10W	
Q308	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q309	8-729-920-74	TRANSISTOR 2SC2412K-QR		R28	1-216-047-91	METAL GLAZE 820 5% 1/10W	
				R29	1-216-047-91	METAL GLAZE 820 5% 1/10W	
Q351	8-729-920-74	TRANSISTOR 2SC2412K-QR		R36	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
Q352	8-729-920-74	TRANSISTOR 2SC2412K-QR		R37	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
Q353	8-729-920-74	TRANSISTOR 2SC2412K-QR		R38	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
Q354	8-729-216-22	TRANSISTOR 2SA1162-G					
Q356	8-729-216-22	TRANSISTOR 2SA1162-G		R53	1-216-295-91	METAL GLAZE 0 5% 1/10W	
				R56	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q358	8-729-216-22	TRANSISTOR 2SA1162-G		R58	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
Q359	8-729-900-53	TRANSISTOR DTC114EK		R59	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
Q360	8-729-901-04	TRANSISTOR DTA114EK		R60	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q501	8-729-216-22	TRANSISTOR 2SA1162-G					
Q502	8-729-216-22	TRANSISTOR 2SA1162-G		R61	1-216-295-91	METAL GLAZE 0 5% 1/10W	
				R301	1-216-022-00	METAL GLAZE 75 5% 1/10W	
Q503	8-729-216-22	TRANSISTOR 2SA1162-G		R302	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q504	8-729-216-22	TRANSISTOR 2SA1162-G		R303	1-216-039-00	METAL GLAZE 390 5% 1/10W	
Q505	8-729-119-78	TRANSISTOR 2SC2785-HFE		R304	1-208-767-11	METAL CHIP 240 0.50% 1/10W	
Q507	8-729-216-22	TRANSISTOR 2SA1162-G					
Q508	8-729-216-22	TRANSISTOR 2SA1162-G		R305	1-216-043-91	METAL GLAZE 560 5% 1/10W	
				R306	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
Q509	8-729-216-22	TRANSISTOR 2SA1162-G		R307	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
Q510	8-729-216-22	TRANSISTOR 2SA1162-G		R308	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
Q1301	8-729-920-74	TRANSISTOR 2SC2412K-QR		R309	1-216-664-11	METAL CHIP 3.6K 0.50% 1/10W	
Q1302	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1303	8-729-920-74	TRANSISTOR 2SC2412K-QR		R310	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
				R311	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
Q1304	8-729-920-74	TRANSISTOR 2SC2412K-QR		R312	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
Q1305	8-729-920-74	TRANSISTOR 2SC2412K-QR		R313	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W	
Q1306	8-729-920-74	TRANSISTOR 2SC2412K-QR		R314	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
Q1307	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1308	8-729-920-74	TRANSISTOR 2SC2412K-QR		R315	1-208-767-11	METAL CHIP 240 0.50% 1/10W	
				R316	1-216-022-00	METAL GLAZE 75 5% 1/10W	
Q1309	8-729-920-74	TRANSISTOR 2SC2412K-QR		R317	1-216-043-91	METAL GLAZE 560 5% 1/10W	
Q1310	8-729-920-74	TRANSISTOR 2SC2412K-QR		R318	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
Q1311	8-729-920-74	TRANSISTOR 2SC2412K-QR		R319	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
Q1312	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1313	8-729-920-74	TRANSISTOR 2SC2412K-QR		R320	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
				R321	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
Q1314	8-729-216-22	TRANSISTOR 2SA1162-G		R322	1-216-043-91	METAL GLAZE 560 5% 1/10W	
Q1315	8-729-920-74	TRANSISTOR 2SC2412K-QR		R323	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
Q1316	8-729-920-74	TRANSISTOR 2SC2412K-QR		R324	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
Q1317	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1318	8-729-216-22	TRANSISTOR 2SA1162-G		R325	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
				R326	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
Q1319	8-729-216-22	TRANSISTOR 2SA1162-G		R327	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
Q1401	8-729-216-22	TRANSISTOR 2SA1162-G		R328	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
Q1402	8-729-216-22	TRANSISTOR 2SA1162-G		R329	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
Q1403	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1404	8-729-140-96	TRANSISTOR 2SD774-34		R330	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
				R331	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
Q1405	8-729-216-22	TRANSISTOR 2SA1162-G		R332	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
				R333	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
				R334	1-216-037-00	METAL GLAZE 330 5% 1/10W	
		< RESISTOR >					
R01	1-216-629-11	METAL CHIP 120 0.50% 1/10W		R335	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
R02	1-216-635-11	METAL CHIP 220 0.50% 1/10W		R336	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R03	1-216-635-11	METAL CHIP 220 0.50% 1/10W		R337	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R04	1-216-043-91	METAL GLAZE 560 5% 1/10W		R338	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R05	1-216-043-91	METAL GLAZE 560 5% 1/10W		R339	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R06	1-216-043-91	METAL GLAZE 560 5% 1/10W		R356	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R07	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W		R357	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R08	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W		R358	1-216-645-11	METAL CHIP 560 0.50% 1/10W	
R09	1-216-662-11	METAL CHIP 3K 0.50% 1/10W		R359	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R10	1-216-295-91	METAL GLAZE 0 5% 1/10W		R360	1-216-645-11	METAL CHIP 560 0.50% 1/10W	
R13	1-216-295-91	METAL GLAZE 0 5% 1/10W		R361	1-216-645-11	METAL CHIP 560 0.50% 1/10W	
R24	1-216-651-11	METAL CHIP 1K 0.50% 1/10W		R362	1-208-800-11	METAL CHIP 5.6K 0.50% 1/10W	
R25	1-216-651-11	METAL CHIP 1K 0.50% 1/10W		R363	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R364	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
R365	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R367	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R368	1-216-660-11	METAL CHIP 2.4K 0.50% 1/10W	
R372	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R373	1-216-660-11	METAL CHIP 2.4K 0.50% 1/10W	
R374	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R375	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R376	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R377	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R378	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R501	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R502	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R505	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R506	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R507	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R508	1-216-632-11	METAL CHIP 160 0.50% 1/10W	
R509	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R510	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R511	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
R512	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R513	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W	
R516	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R517	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R518	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R519	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R520	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R521	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R522	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R523	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R524	1-216-121-91	METAL GLAZE 1M 5% 1/10W	
R529	1-216-756-11	METAL CHIP 150K 0.50% 1/10W	
R530	1-216-047-91	METAL GLAZE 820 5% 1/10W	
R531	1-216-047-91	METAL GLAZE 820 5% 1/10W	
R532	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R535	1-216-047-91	METAL GLAZE 820 5% 1/10W	
R538	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R539	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R540	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R554	1-216-665-11	METAL CHIP 3.9K 0.50% 1/10W	
R555	1-216-666-11	METAL CHIP 4.3K 0.50% 1/10W	
R556	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R557	1-216-603-11	METAL CHIP 10 0.50% 1/10W	
R558	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R559	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R561	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
R562	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R563	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R564	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R565	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R566	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R572	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R573	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
R574	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R575	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R576	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R577	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R579	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
R580	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R1301	1-216-049-91	METAL GLAZE 1K 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1302	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1303	1-216-677-11	METAL CHIP 12K 0.50% 1/10W	
R1304	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1305	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R1306	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R1307	1-216-671-11	METAL CHIP 6.8K 0.50% 1/10W	
R1308	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1310	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R1311	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1312	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1313	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1314	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R1315	1-208-767-11	METAL CHIP 240 0.50% 1/10W	
R1316	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1317	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R1318	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1319	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R1320	1-216-648-11	METAL CHIP 750 0.50% 1/10W	
R1321	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1322	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R1323	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1324	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1325	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R1326	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R1327	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1328	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1329	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1330	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1331	1-216-650-11	METAL CHIP 910 0.5% 1/10W	
R1332	1-216-626-11	METAL CHIP 91 0.5% 1/10W	
R1333	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1334	1-216-667-11	METAL CHIP 4.7K 0.5% 1/10W	
R1335	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R1336	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R1337	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1338	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1339	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1340	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R1341	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1342	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1343	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R1344	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1345	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1346	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
R1347	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R1348	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1349	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1350	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R1351	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1352	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R1353	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R1355	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1356	1-208-771-11	METAL CHIP 360 0.5% 1/10W	
R1357	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1358	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1359	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R1360	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1361	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1362	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R1363	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	

**B** **F1** **A1**

The components identified by shading and marked **▲** are critical for safety.  
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1364	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W	*A-1624-053-A F1 BOARD, COMPLETE *****			
R1365	1-216-097-91	METAL GLAZE 100K 5%	1/10W	< CONNECTOR >			
R1366	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W	C90007 ▲ *1-580-844-11 PIN, CONNECTOR (POWER)			
R1367	1-216-049-91	METAL GLAZE 1K 5%	1/10W	C90622 ▲ *1-695-292-11 PIN, CONNECTOR (POWER)			
R1368	1-216-049-91	METAL GLAZE 1K 5%	1/10W	< FUSE >			
R1369	1-216-083-00	METAL GLAZE 27K 5%	1/10W	F651 * 1-576-232-21 FUSE (E.B.C.) (5A 250V)			
R1370	1-216-073-00	METAL GLAZE 10K 5%	1/10W	1-533-230-11 HOLDER, FUSE; F651			
R1371	1-216-049-91	METAL GLAZE 1K 5%	1/10W	< SWITCH >			
R1372	1-216-105-91	METAL GLAZE 220K 5%	1/10W	S632 * 1-571-433-21 SWITCH, PUSH (AC POWER)			
R1373	1-216-097-91	METAL GLAZE 100K 5%	1/10W	*****			
R1374	1-216-049-91	METAL GLAZE 1K 5%	1/10W	*A-1630-370-A A1 BOARD, COMPLETE *****			
R1375	1-216-049-91	METAL GLAZE 1K 5%	1/10W	< CAPACITOR >			
R1376	1-216-049-91	METAL GLAZE 1K 5%	1/10W	C1236	1-164-348-11	CERAMIC CHIP 0.12MF	10% 25V
R1377	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	C1237	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R1378	1-218-764-11	METAL CHIP 330K 0.50%	1/10W	C1238	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V
R1401	1-216-022-00	METAL GLAZE 75 5%	1/10W	C1239	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V
R1402	1-216-022-00	METAL GLAZE 75 5%	1/10W	C1240	1-163-022-00	CERAMIC CHIP 0.012MF	10% 50V
R1405	1-216-651-11	METAL CHIP 1K 0.50%	1/10W	C1241	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R1406	1-216-659-11	METAL CHIP 2.2K 0.50%	1/10W	C1242	1-163-014-00	CERAMIC CHIP 0.0027MF	5% 50V
R1407	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	C1243	1-163-014-00	CERAMIC CHIP 0.0027MF	5% 50V
R1410	1-216-091-00	METAL GLAZE 56K 5%	1/10W	C1244	1-163-010-11	CERAMIC CHIP 0.0012MF	10% 50V
R1411	1-216-091-00	METAL GLAZE 56K 5%	1/10W	C1245	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R1412	1-216-097-91	METAL GLAZE 100K 5%	1/10W	C1246	1-126-965-11	ELECT 22MF	20% 50V
R1413	1-216-049-91	METAL GLAZE 1K 5%	1/10W	C1247	1-126-933-11	ELECT 100MF	20% 16V
R1414	1-216-097-91	METAL GLAZE 100K 5%	1/10W	C1248	1-164-348-11	CERAMIC CHIP 0.12MF	10% 25V
R1415	1-216-049-91	METAL GLAZE 1K 5%	1/10W	C1249	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R1416	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W	C1250	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V
R1417	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C1251	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V
R1419	1-216-105-91	METAL GLAZE 220K 5%	1/10W	C1252	1-163-022-00	CERAMIC CHIP 0.012MF	10% 50V
R1420	1-216-091-00	METAL GLAZE 56K 5%	1/10W	C1253	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R1421	1-216-085-00	METAL GLAZE 33K 5%	1/10W	C1254	1-163-014-00	CERAMIC CHIP 0.0027MF	5% 50V
R1422	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C1255	1-163-014-00	CERAMIC CHIP 0.0027MF	5% 50V
R1424	1-216-081-00	METAL GLAZE 22K 5%	1/10W	C1256	1-163-010-11	CERAMIC CHIP 0.0012MF	10% 50V
R1425	1-216-097-91	METAL GLAZE 100K 5%	1/10W	C1257	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R1426	1-216-085-00	METAL GLAZE 33K 5%	1/10W	C1264	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R1427	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	C3201	1-124-925-11	ELECT 2.2MF	20% 50V
R1428	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	C3202	1-126-934-11	ELECT 220MF	20% 16V
R1434	1-216-041-00	METAL GLAZE 470 5%	1/10W	C3203	1-107-682-11	CERAMIC CHIP 1MF	10% 16V
R1435	1-216-651-11	METAL CHIP 1K 0.50%	1/10W	C3204	1-126-964-11	ELECT 10MF	20% 50V
R1436	1-216-649-11	METAL CHIP 820 0.50%	1/10W	C3205	1-126-964-11	ELECT 10MF	20% 50V
R1437	1-216-049-91	METAL GLAZE 1K 5%	1/10W	C3206	1-126-964-11	ELECT 10MF	20% 50V
R1438	1-216-049-91	METAL GLAZE 1K 5%	1/10W	C3207	1-126-964-11	ELECT 10MF	20% 50V
R1439	1-216-049-91	METAL GLAZE 1K 5%	1/10W	C3208	1-107-682-11	CERAMIC CHIP 1MF	10% 16V
R1440	1-216-049-91	METAL GLAZE 1K 5%	1/10W	C3209	1-136-159-00	FILM 0.033MF	5% 50V
R1441	1-216-049-91	METAL GLAZE 1K 5%	1/10W	C3210	1-136-480-11	FILM 0.0015MF	5% 100V
R1442	1-216-049-91	METAL GLAZE 1K 5%	1/10W	C3211	1-136-159-00	FILM 0.033MF	5% 50V
< CRYSTAL >				C3212	1-126-934-11	ELECT 220MF	20% 16V
X301	1-760-457-91	VIBRATOR, CRYSTAL (17.7MHZ)		C3215	1-126-934-11	ELECT 220MF	20% 16V
X302	1-527-722-00	OSCILLATOR, CRYSTAL (14.3MHZ)		C3216	1-126-964-11	ELECT 10MF	20% 50V
X571	1-577-165-11	VIBRATOR, CERAMIC		C3217	1-126-964-11	ELECT 10MF	20% 50V
X1401	1-527-722-00	OSCILLATOR, CRYSTAL (14.3MHZ)		C3218	1-126-964-11	ELECT 10MF	20% 50V
X1402	1-760-457-91	VIBRATOR, CRYSTAL (17.7MHZ)		C3219	1-126-964-11	ELECT 10MF	20% 50V



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REF.NO.	PART NO.	DESCRIPTION	REMARK
C3220	1-126-934-11	ELECT 220MF	20% 16V
C3221	1-107-682-11	CERAMIC CHIP 1MF	10% 16V
C3222	1-107-682-11	CERAMIC CHIP 1MF	10% 16V
C3223	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3224	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3225	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3226	1-131-351-00	TANTALUM 4.7MF	10% 35V
C3227	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3228	1-131-351-00	TANTALUM 4.7MF	10% 35V
C3229	1-164-492-11	CERAMIC CHIP 0.15MF	10% 16V
C3230	1-131-350-00	TANTALUM 3.3MF	10% 35V
C3231	1-164-492-11	CERAMIC CHIP 0.15MF	10% 16V
C3232	1-164-492-11	CERAMIC CHIP 0.15MF	10% 16V
C3233	1-131-350-00	TANTALUM 3.3MF	10% 35V
C3234	1-164-492-11	CERAMIC CHIP 0.15MF	10% 16V
C3235	1-131-351-00	TANTALUM 4.7MF	10% 35V
C3236	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3237	1-131-351-00	TANTALUM 4.7MF	10% 35V
C3238	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3239	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3240	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3241	1-126-967-11	ELECT 47MF	20% 16V
C3242	1-136-170-00	FILM 0.27MF	5% 50V
C3243	1-126-964-11	ELECT 10MF	20% 50V
C3244	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C3245	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3246	1-126-964-11	ELECT 10MF	20% 50V
C3247	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3248	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3249	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C3250	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3251	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3252	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C3253	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V
C3254	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V
C3255	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C3256	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C3257	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C3258	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C3259	1-126-933-11	ELECT 100MF	20% 16V
C3260	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3265	1-136-157-00	FILM 0.022MF	5% 50V
C3266	1-136-161-00	FILM 0.047MF	5% 50V
C3267	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3268	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3269	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3270	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
< CONNECTOR >			
CN1101	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P	
< FERRITE BEAD >			
FB1104	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
< IC >			
IC1205	8-759-257-64	IC TDA7317	
IC3201	8-759-248-74	IC LA2785	
IC3202	8-759-341-23	IC LV1011	
IC3203	8-759-266-65	IC TDA6622-5	

REF.NO.	PART NO.	DESCRIPTION	REMARK
< COIL >			
L1203	1-408-419-00	INDUCTOR	68UH
L3201	1-408-419-00	INDUCTOR	68UH
L3202	1-408-419-00	INDUCTOR	68UH
< TRANSISTOR >			
Q1203	8-729-901-01	TRANSISTOR DTC144EK	
Q1204	8-729-901-01	TRANSISTOR DTC144EK	
< RESISTOR >			
JR3201	1-216-295-91	METAL GLAZE	0 5% 1/10W
JR3202	1-216-295-91	METAL GLAZE	0 5% 1/10W
R1131	1-216-041-00	METAL GLAZE	470 5% 1/10W
R1132	1-216-041-00	METAL GLAZE	470 5% 1/10W
R1246	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1247	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1248	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1249	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1250	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1251	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1252	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1253	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1254	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1255	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1256	1-216-025-91	METAL GLAZE	100 5% 1/10W
R1257	1-216-025-91	METAL GLAZE	100 5% 1/10W
R1258	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1259	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1260	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1261	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1262	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1263	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1264	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1265	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1266	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1267	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1268	1-216-295-91	METAL GLAZE	0 5% 1/10W
R1269	1-216-295-91	METAL GLAZE	0 5% 1/10W
R1270	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1271	1-216-033-00	METAL GLAZE	220 5% 1/10W
R3201	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R3202	1-216-228-00	METAL GLAZE	18K 5% 1/3W
R3204	1-216-025-91	METAL GLAZE	100 5% 1/10W
R3205	1-216-025-91	METAL GLAZE	100 5% 1/10W
R3206	1-216-033-00	METAL GLAZE	220 5% 1/10W
R3207	1-216-033-00	METAL GLAZE	220 5% 1/10W
R3208	1-216-025-91	METAL GLAZE	100 5% 1/10W
R3209	1-216-025-91	METAL GLAZE	100 5% 1/10W
R3210	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R3211	1-208-854-11	METAL CHIP	1M 0.50% 1/10W
< CRYSTAL >			
X3201	1-579-125-11	VIBRATOR, CERAMIC	




REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1632-297-A	A BOARD, COMPLETE (KV-S2951A/S2951D) *****		C211	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
	*A-1632-347-A	A BOARD, COMPLETE (KV-S2953B) *****		C212	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
	*A-1632-348-A	A BOARD, COMPLETE (KV-S2953E) *****		C213	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
	*A-1632-349-A	A BOARD, COMPLETE (KV-S2951K) *****		C214	1-126-967-11	ELECT 47MF	20% 50V
	*A-1632-346-A	A BOARD, COMPLETE (KV-S2952U) *****		C215	1-126-967-11	ELECT 47MF	20% 50V
	4-201-023-01	SPACER, INSULATING		C218	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
	4-202-373-01	SPRING, IC		C219	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
	4-382-854-11	SCREW (M3X10), P, SW (+)		C220	1-124-925-11	ELECT 2.2MF	20% 50V
< CAPACITOR >				C221	1-124-925-11	ELECT 2.2MF	20% 50V
C001	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C222	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C002	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C223	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C004	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C224	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C007	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C225	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C008	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C226	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C009	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C227	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C010	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C228	1-124-925-11	ELECT 2.2MF	20% 50V
C012	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C229	1-124-925-11	ELECT 2.2MF	20% 50V
C014	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C230	1-136-177-00	FILM 1MF	5% 50V
C016	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)			
C017	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C231	1-136-177-00	FILM 1MF	5% 50V
C018	1-124-925-11	ELECT 2.2MF	20% 50V	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)			
C019	1-126-965-11	ELECT 22MF	20% 50V	C232	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C020	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)			
C022	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C233	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C023	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)			
C024	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C234	1-126-964-11	ELECT 10MF	20% 50V
C025	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C235	1-126-964-11	ELECT 10MF	20% 50V
C026	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C236	1-126-933-11	ELECT 100MF	20% 16V
C027	1-164-346-11	CERAMIC CHIP 1MF	16V	C237	1-104-665-11	ELECT 100MF	20% 25V
C028	1-126-964-11	ELECT 10MF	20% 50V	C238	1-136-165-00	FILM 0.1MF	5% 50V
C032	1-163-185-00	CERAMIC CHIP 150PF	5% 50V	C239	1-136-165-00	FILM 0.1MF	5% 50V
C042	1-164-346-11	CERAMIC CHIP 1MF	16V	C240	1-104-665-11	ELECT 100MF	20% 25V
C072	1-126-934-11	ELECT 220MF	20% 16V	C242	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C081	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C243	1-126-967-11	ELECT 47MF	20% 16V
C103	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C248	1-163-185-00	CERAMIC CHIP 150PF	5% 50V
C104	1-126-934-11	ELECT 220MF	20% 16V	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)			
C105	1-126-965-11	ELECT 22MF	20% 50V	C251	1-136-165-00	FILM 0.1MF	5% 50V
C106	1-124-927-11	ELECT 4.7MF	20% 50V	C252	1-136-165-00	FILM 0.1MF	5% 50V
		(KV-S2951A/S2951D/S2953E/S2951K/S2952U)		C253	1-126-967-11	ELECT 47MF	20% 16V
	1-126-933-11	ELECT 100MF	20% 16V	C256	1-126-967-11	ELECT 47MF	20% 16V
		(KV-S2953B)		C258	1-126-934-11	ELECT 220MF	20% 16V
C107	1-126-934-11	ELECT 220MF	20% 16V	C259	1-107-714-11	ELECT 10MF	20% 16V
C120	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C260	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V
C201	1-163-078-11	CERAMIC CHIP 0.033MF	10% 25V	C261	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V
C202	1-163-078-11	CERAMIC CHIP 0.033MF	10% 25V	C262	1-126-967-11	ELECT 47MF	20% 16V
C203	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C263	1-126-967-11	ELECT 47MF	20% 16V
C204	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C264	1-136-165-00	FILM 0.1MF	5% 50V
C205	1-126-964-11	ELECT 10MF	20% 50V	C265	1-136-165-00	FILM 0.1MF	5% 50V
C206	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C266	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
		(KV-S2951A/S2953B/S2951D/S2953E/S2951K)		C267	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C207	1-137-613-11	FILM 0.0018MF	2% 100V	C268	1-136-165-00	FILM 0.1MF	5% 50V
		(KV-S2951A/S2953B/S2951D/S2953E/S2951K)		C269	1-136-165-00	FILM 0.1MF	5% 50V
C208	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C270	1-126-953-11	ELECT 2200MF	20% 35V
C209	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C271	1-126-953-11	ELECT 2200MF	20% 35V
C210	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C272	1-126-953-11	ELECT 2200MF	20% 35V
				C273	1-126-953-11	ELECT 2200MF	20% 35V
				C274	1-136-165-00	FILM 0.1MF	5% 50V
				C275	1-136-165-00	FILM 0.1MF	5% 50V
				C280	1-126-967-11	ELECT 47MF	20% 16V
				C281	1-126-940-11	ELECT 330MF	20% 16V


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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C283	1-164-489-91	CERAMIC CHIP 0.22MF	10% 16V	C1115	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C284	1-164-489-91	CERAMIC CHIP 0.22MF	10% 16V	C1116	1-126-967-11	ELECT 47MF	20% 16V
C285	1-164-489-91	CERAMIC CHIP 0.22MF	10% 16V				
C351	1-126-964-11	ELECT 10MF	20% 50V	C1117	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C352	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1118	1-126-967-11	ELECT 47MF	20% 16V
C355	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1119	1-126-967-11	ELECT 47MF	20% 16V
C356	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1120	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C357	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1121	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
C358	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1122	1-126-967-11	ELECT 47MF	20% 16V
C359	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1123	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C360	1-164-326-91	CERAMIC CHIP 0.47MF	16V	C1124	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C361	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1125	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C362	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1126	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C364	1-126-964-11	ELECT 10MF	20% 50V	C1127	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C372	1-126-964-11	ELECT 10MF	20% 50V	C1128	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C373	1-126-964-11	ELECT 10MF	20% 50V	C1129	1-162-568-11	CERAMIC CHIP 0.33MF	25V
C580	1-126-964-11	ELECT 10MF	20% 50V	C1130	1-124-903-11	ELECT 1MF	20% 50V
C581	1-124-902-00	ELECT 0.47MF	20% 50V	C1131	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C582	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C1132	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C585	1-126-967-11	ELECT 47MF	20% 16V	C1133	1-126-967-11	ELECT 47MF	20% 16V
C586	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1134	1-126-964-11	ELECT 10MF	20% 50V
C587	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1135	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C588	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1136	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C589	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1137	1-163-095-00	CERAMIC CHIP 12PF	5% 50V
C590	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1139	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C591	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1142	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
C592	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1143	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C593	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1147	1-126-967-11	ELECT 47MF	20% 16V
C594	1-126-967-11	ELECT 47MF	20% 50V	C1148	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C681	1-104-664-11	ELECT 47MF	20% 25V	C1150	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C682	1-126-967-11	ELECT 47MF	20% 16V	C1151	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C683	1-104-664-11	ELECT 47MF	20% 25V	C1152	1-126-967-11	ELECT 47MF	20% 16V
C684	1-104-664-11	ELECT 47MF	20% 25V	C1157	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C685	1-126-967-11	ELECT 47MF	20% 16V	C1501	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C686	1-126-967-11	ELECT 47MF	20% 16V	C1502	1-124-903-11	ELECT 1MF	20% 50V
C687	1-126-967-11	ELECT 47MF	20% 16V	C1504	1-124-122-11	ELECT 100MF	20% 50V
C688	1-126-967-11	ELECT 47MF	20% 16V	C1505	1-137-371-11	FILM 0.015MF	5% 50V
C689	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1506	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C690	1-126-967-11	ELECT 47MF	20% 16V	C1507	1-106-383-00	MYLAR 0.047MF	10% 100V
C691	1-126-967-11	ELECT 47MF	20% 16V	C1508	1-137-423-11	MYLAR 0.15MF	10% 100V
C692	1-126-967-11	ELECT 47MF	20% 16V	C1510	1-130-789-00	FILM 1MF	5% 100V
C693	1-126-967-11	ELECT 47MF	20% 16V	C1511	1-126-941-11	ELECT 470MF	20% 25V
C1007	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1512	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1008	1-126-967-11	ELECT 47MF	20% 16V	C1513	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
	< C1101 - C1157 FITTED ON >			C1514	1-126-941-11	ELECT 470MF	20% 25V
	< KV-S2953B/S2953E/S2952U >			C1518	1-124-927-11	ELECT 4.7MF	20% 50V
				C1520	1-126-965-91	ELECT 22MF	20% 50V
				C1521	1-107-698-11	ELECT 10MF	20% 25V
C1101	1-163-131-00	CERAMIC CHIP 390PF	5% 50V	C1522	1-126-964-91	ELECT 10MF	20% 50V
C1102	1-163-093-00	CERAMIC CHIP 10PF	5% 50V	C1523	1-104-664-11	ELECT 47MF	20% 25V
C1103	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1531	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V
C1104	1-126-964-11	ELECT 10MF	20% 50V	C1532	1-126-964-11	ELECT 10MF	20% 50V
C1105	1-126-964-11	ELECT 10MF	20% 50V	C1533	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C1106	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1534	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1107	1-126-967-11	ELECT 47MF	20% 16V	C1535	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V
C1108	1-126-964-11	ELECT 10MF	20% 50V	C1537	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1110	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C1539	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1111	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C1540	1-126-967-11	ELECT 47MF	20% 50V
C1112	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C1541	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C1113	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C1542	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1114	1-126-967-11	ELECT 47MF	20% 16V	C1543	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1544	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	< CONNECTOR >			
C1545	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	CN0001	*1-564-520-11	PLUG, CONNECTOR 5P	
C1546	1-163-038-91	CERAMIC CHIP 0.1MF	25V	CN0002	*1-568-878-51	PIN, CONNECTOR 3P	
C1547	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V	CN0101	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	
C1548	1-163-055-00	CERAMIC CHIP 0.0047MF	10% 50V	CN0102	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
C1549	1-163-055-00	CERAMIC CHIP 0.0047MF	10% 50V	CN0103	1-764-608-11	CONNECTOR, BOARD TO BOARD 8P	
C1550	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN0104	1-764-608-11	CONNECTOR, BOARD TO BOARD 8P	
C1551	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	CN0105	1-764-608-11	CONNECTOR, BOARD TO BOARD 8P	
C1552	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	CN0106	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1553	1-163-038-91	CERAMIC CHIP 0.1MF	25V	CN0107	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	
C1554	1-163-038-91	CERAMIC CHIP 0.1MF	25V	CN0109	*1-900-900-67	PIN, CONNECTOR 1P	
C1555	1-126-967-11	ELECT 47MF	20% 50V	CN0111	*1-568-882-51	PIN, CONNECTOR 7P	
C1556	1-124-122-11	ELECT 100MF	20% 50V	CN0113	*1-568-879-11	PIN, CONNECTOR 4P	
C1558	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	CN0114	*1-564-511-11	PLUG, CONNECTOR 8P	
C1559	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	CN0115	*1-568-881-51	PIN, CONNECTOR 6P	
C1560	1-124-902-00	ELECT 0.47MF	20% 50V	< DIODE >			
C1561	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V	D001	8-719-027-82	DIODE MA3039H-TX	
C1562	1-163-117-91	CERAMIC CHIP 100P	5% 50V	D003	8-719-914-42	DIODE DA204K	
C1563	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	D068	8-719-914-44	DIODE DAP202K	
C1564	1-164-336-11	CERAMIC CHIP 0.33MF	25V	D069	8-719-914-44	DIODE DAP202K	
C1567	1-124-903-11	ELECT 1MF	20% 50V	D071	8-719-109-89	DIODE RD5.6ESB2	
C1568	1-164-344-11	CERAMIC CHIP 0.068MF	10% 25V	D073	8-719-109-89	DIODE RD5.6ESB2	
C1569	1-163-003-11	CERAMIC CHIP 330PF	10% 50V	D075	8-719-914-43	DIODE DAN202K	
C1570	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D077	8-719-914-43	DIODE DAN202K	
C1571	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D078	8-719-109-89	DIODE RD5.6ESB2	
C1572	1-126-934-91	ELECT 220MF	20% 16V	D079	8-719-109-89	DIODE RD5.6ESB2	
C1585	1-124-903-11	ELECT 1MF	20% 50V	D101	8-719-982-27	DIODE MT2J-33C	
C1586	1-124-902-00	ELECT 0.47MF	20% 50V	D201	8-719-914-42	DIODE DA204K	
C1587	1-126-967-11	ELECT 47MF	20% 50V	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)			
C1588	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D251	8-719-991-33	DIODE 1SS133T-77	
C1589	1-162-587-11	CERAMIC CHIP 0.039MF	10% 25V	D252	8-719-991-33	DIODE 1SS133T-77	
C1590	1-164-346-11	CERAMIC CHIP 1MF	16V	D253	8-719-991-33	DIODE 1SS133T-77	
C1591	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	D254	8-719-991-33	DIODE 1SS133T-77	
C1593	1-126-965-91	ELECT 22MF	20% 50V	D255	8-719-914-43	DIODE DAN202K	
C2001	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	D256	8-719-991-33	DIODE 1SS133T-77	
C2002	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	D257	8-719-991-33	DIODE 1SS133T-77	
C2003	1-164-222-11	CERAMIC CHIP 0.22MF	25V	D258	8-719-991-33	DIODE 1SS133T-77	
C2004	1-164-222-11	CERAMIC CHIP 0.22MF	25V	D259	8-719-991-33	DIODE 1SS133T-77	
C2005	1-163-038-91	CERAMIC CHIP 0.1MF	25V	D260	8-719-991-33	DIODE 1SS133T-77	
C2007	1-126-965-11	ELECT 22MF	20% 50V	D261	8-719-991-33	DIODE 1SS133T-77	
C2008	1-164-222-11	CERAMIC CHIP 0.22MF	25V	D262	8-719-991-33	DIODE 1SS133T-77	
C2010	1-163-038-91	CERAMIC CHIP 0.1MF	25V	D263	8-719-914-43	DIODE DAN202K	
C2011	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	D265	8-719-914-42	DIODE DA204K	
C2012	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D351	8-719-991-33	DIODE 1SS133T-77	
C2013	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D581	8-719-914-43	DIODE DAN202K	
C2014	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	D1001	8-719-914-44	DIODE DAP202K	
C2016	1-164-222-11	CERAMIC CHIP 0.22MF	25V	D1002	8-719-914-43	DIODE DAN202K	
C2017	1-164-222-11	CERAMIC CHIP 0.22MF	25V	D1003	8-719-914-43	DIODE DAN202K	
C2019	1-126-965-11	ELECT 22MF	20% 50V	D1101	8-719-914-43	DIODE DAN202K (KV-S2953B/S2953E/S2952U)	
C2020	1-164-346-11	CERAMIC CHIP 1MF	16V	D1102	8-719-820-71	DIODE 1SV214 (KV-S2953B/S2953E/S2952U)	
C2024	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	D1503	8-719-908-03	DIODE GP08D	
C2025	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	D1504	8-719-110-41	DIODE RD15ESB2	
C2027	1-164-222-11	CERAMIC CHIP 0.22MF	25V	D1505	8-719-914-43	DIODE DAN202K	
C2031	1-163-031-11	CERAMIC CHIP 0.01MF	50V	D1510	8-719-914-42	DIODE DA204K	
C2032	1-126-933-11	ELECT 100MF	20% 16V	D1511	8-719-982-03	DIODE MT2J-3.6A	
C2701	1-126-964-11	ELECT 10MF	20% 50V	D1530	8-719-914-43	DIODE DAN204K	
C2702	1-126-967-11	ELECT 47MF	20% 16V	D1533	8-719-400-75	DIODE MA3091	
C2706	1-163-003-11	CERAMIC CHIP 330PF	10% 50V	D1534	8-719-914-43	DIODE DAN202K	
				D1536	8-719-105-82	DIODE RD5.1M-B2	

The components identified by shading and marked  are critical for safety.  
Replace only with the part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D1538	8-719-914-43	DIODE DAN202K		< IC LINK >			
D1539	8-719-914-42	DIODE DA204K		<del>8-719-914-41 LINK IC (ICP-N25) 1.0A</del>			
D1542	8-719-923-60	DIODE MTZJ-T-77-9.1A		< TRANSISTOR >			
D1543	8-719-914-42	DIODE DA204K		Q002	8-729-216-22	TRANSISTOR 2SA1162-G	
D1544	8-719-914-42	DIODE DA204K		Q005	8-729-027-59	TRANSISTOR DTC144EKA-T146	
D1545	8-719-914-42	DIODE DA204K		Q006	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D1546	8-719-923-46	DIODE MTZJ-T-77-6.8B		Q007	8-729-027-59	TRANSISTOR DTC144EKA-T146	
D2001	8-719-036-58	DIODE MA3030-H(TX)		Q008	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D2004	8-719-914-43	DIODE DAN202K		Q102	8-729-027-52	TRANSISTOR DTC124EKA-T146	
D2701	8-719-914-44	DIODE DAP202K		Q103	8-729-027-52	TRANSISTOR DTC124EKA-T146	
< IC >				Q106	8-729-821-00	TRANSISTOR 2SA1207	
IC001	8-759-351-92	IC SDA30C164-2GEG		Q107	8-729-255-12	TRANSISTOR 2SC2551-O	
IC002	8-759-353-77	IC TMS27PC020-15FMLAE307		Q203	8-729-920-74	TRANSISTOR 2SC2412K-QR	
	1-750-797-11	SOCKET, PLCC ; IC002		(KV-S2951A/S2953B/S2951D/S2953E/S2951K)			
IC072	8-759-184-27	IC ST24C16CB1		Q252	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC201	8-759-348-87	IC TDA6812-2MGEG		Q253	8-729-216-22	TRANSISTOR 2SA1162-G	
IC202	8-759-502-21	IC TDA2822M		Q254	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC251	8-759-190-89	IC TDA7265		Q255	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC261	8-759-190-89	IC TDA7265		Q256	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC351	8-759-183-36	IC TDA8443B		Q257	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC572	8-752-070-54	IC CXA1839Q-T6		Q258	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC681	8-759-518-68	IC PQ12RF21		Q281	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC682	8-759-513-71	IC PQ05RF21		Q282	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC683	8-759-908-15	IC TL431CLP		Q351	8-729-216-22	TRANSISTOR 2SA1162-G	
IC684	8-759-195-63	IC PQ09RE11		Q352	8-729-216-22	TRANSISTOR 2SA1162-G	
IC685	8-759-510-52	IC TEA7605		Q571	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC1001	8-752-869-17	IC CXP85112B-622Q-TL		Q581	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC1101	8-759-251-58	IC SAA7283GP (KV-S2953B/S2953E/S2952U)		Q681	8-729-032-65	TRANSISTOR 2SD2396H	
IC1501	8-759-192-71	IC STV9379		Q1001	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1531	8-752-068-39	IC CXA1840S		Q1105	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC2001	8-759-248-91	IC SDA9086-5		(KV-S2953B/S2953E/S2952U)			
IC2002	8-759-337-48	IC SDA5273P-C26-GEG		Q1106	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC2003	8-759-188-60	IC MB81C4256A-70PSZG		(KV-S2953B/S2953E/S2952U)			
IC2701	8-759-603-37	IC M5216P		Q1107	8-729-920-74	TRANSISTOR 2SC2412K-QR	
< IF BLOCK >				(KV-S2953B/S2953E/S2952U)			
IFB101	1-473-191-11	IF BLOCK (KV-S2951A/S2951D/S2953E)		Q1108	8-729-920-74	TRANSISTOR 2SC2412K-QR	
	1-467-573-13	IF BLOCK (KV-S2953B)		(KV-S2953B/S2953E/S2952U)			
	1-467-873-12	IF BLOCK (KV-S2951K)		Q1503	8-729-216-22	TRANSISTOR 2SA1162-G	
	1-473-190-11	IF BLOCK (KV-S2952U)		Q1504	8-729-920-74	TRANSISTOR 2SC2412K-QR	
< COIL >				Q1505	8-729-931-45	TRANSISTOR 1RF614	
L001	1-408-421-00	INDUCTOR 100UH		Q1506	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L101	1-408-413-00	INDUCTOR 22UH		Q1507	8-729-216-22	TRANSISTOR 2SA1162-G	
L102	1-408-413-00	INDUCTOR 22UH		Q1508	8-729-027-59	TRANSISTOR DTC144EKA-T146	
L201	1-407-500-00	INDUCTOR 4.7MMH		Q1510	8-729-216-22	TRANSISTOR 2SA1162-G	
L1002	1-408-397-00	INDUCTOR 1UH		Q1511	8-729-027-59	TRANSISTOR DTC144EKA-T146	
L1101	1-412-004-31	INDUCTOR CHIP 6.8UH		Q1512	8-729-027-59	TRANSISTOR DTC144EKA-T146	
		(KV-S2953B/S2953E/S2952U)		Q1531	8-729-216-22	TRANSISTOR 2SA1162-G	
L1102	1-408-419-00	INDUCTOR 68UH		Q1532	8-729-216-22	TRANSISTOR 2SA1162-G	
		(KV-S2953B/S2953E/S2952U)		Q1533	8-729-216-22	TRANSISTOR 2SA1162-G	
L1103	1-408-419-00	INDUCTOR 68UH		Q1544	8-729-920-74	TRANSISTOR 2SC2412K-QR	
		(KV-S2953B/S2953E/S2952U)		Q1545	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L1501	1-412-524-11	INDUCTOR 8.2UH		Q1547	8-729-216-22	TRANSISTOR 2SA1162-G	
L1531	1-412-537-41	INDUCTOR 100UH		Q1548	8-729-216-22	TRANSISTOR 2SA1162-G	
L2001	1-410-674-31	INDUCTOR 82UH		Q1549	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L2002	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH		Q1550	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q2001	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q2002	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q2004	8-729-027-52	TRANSISTOR DTC124EKA-T146	
				Q2005	8-729-920-74	TRANSISTOR 2SC2412K-QR	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q2006	8-729-027-59	TRANSISTOR DTC144EKA-T146		R073	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q2008	8-729-027-52	TRANSISTOR DTC124EKA-T146		R074	1-216-049-91	METAL GLAZE 1K 5%	1/10W
Q2701	8-729-920-74	TRANSISTOR 2SC2412K-QR		R077	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
< RESISTOR >				R083	1-216-049-91	METAL GLAZE 1K 5%	1/10W
JR001	1-216-295-91	METAL GLAZE 0 5%	1/10W	R085	1-216-049-91	METAL GLAZE 1K 5%	1/10W
JR002	1-216-295-91	METAL GLAZE 0 5%	1/10W	R101	1-216-025-91	METAL GLAZE 100 5%	1/10W
JR101	1-216-295-91	METAL GLAZE 0 5%	1/10W	R102	1-216-025-91	METAL GLAZE 100 5%	1/10W
JR102	1-216-295-91	METAL GLAZE 0 5%	1/10W	R105	1-216-073-00	METAL GLAZE 10K 5%	1/10W
JR201	1-216-295-91	METAL GLAZE 0 5%	1/10W	R108	1-216-081-00	METAL GLAZE 22K 5%	1/10W
		(KV-S2951A/S2951D/S2951K)		R109	1-216-113-00	METAL GLAZE 470K 5%	1/10W
JR202	1-216-295-91	METAL GLAZE 0 5%	1/10W	R110	1-216-079-00	METAL GLAZE 18K 5%	1/10W
		(KV-S2951A/S2951D/S2951K)		R111	1-216-089-91	METAL GLAZE 47K 5%	1/10W
JR279	1-216-295-91	METAL GLAZE 0 5%	1/10W	R115	1-216-073-00	METAL GLAZE 10K 5%	1/10W
JR280	1-216-295-91	METAL GLAZE 0 5%	1/10W	R116	1-215-901-00	METAL OXIDE 33K 5%	2W F
JR361	1-216-295-91	METAL GLAZE 0 5%	1/10W	R121	1-216-081-00	METAL GLAZE 22K 5%	1/10W
JR362	1-216-295-91	METAL GLAZE 0 5%	1/10W	R127	1-216-295-91	METAL GLAZE 0 5%	1/10W
JR363	1-216-295-91	METAL GLAZE 0 5%	1/10W	R130	1-216-295-91	METAL GLAZE 0 5%	1/10W
JR1013	1-216-295-91	METAL GLAZE 0 5%	1/10W	R131	1-216-295-91	METAL GLAZE 0 5%	1/10W
JR1501	1-216-295-91	METAL GLAZE 0 5%	1/10W	R201	1-216-655-11	METAL CHIP 1.5K 0.50%	1/10W
JR2002	1-216-295-91	METAL GLAZE 0 5%	1/10W	R202	1-216-657-11	METAL CHIP 1.8K 0.50%	1/10W
R001	1-216-025-91	METAL GLAZE 100 5%	1/10W	R203	1-216-655-11	METAL CHIP 1.5K 0.50%	1/10W
R002	1-216-025-91	METAL GLAZE 100 5%	1/10W	R204	1-216-657-11	METAL CHIP 1.8K 0.50%	1/10W
R003	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R205	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R004	1-216-049-91	METAL GLAZE 1K 5%	1/10W			(KV-S2951A/S2953B/S2951D/S2953E/S2951K)	
R006	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R206	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R007	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R207	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R008	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R208	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R009	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R209	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R010	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R210	1-247-734-11	CARBON 39 5%	1/2W
R012	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R211	1-247-734-11	CARBON 39 5%	1/2W
R014	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R212	1-216-025-91	METAL GLAZE 100 5%	1/10W
R016	1-216-045-00	METAL GLAZE 680 5%	1/10W	R213	1-216-025-91	METAL GLAZE 100 5%	1/10W
R017	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R214	1-216-025-91	METAL GLAZE 100 5%	1/10W
R018	1-216-041-00	METAL GLAZE 470 5%	1/10W			(KV-S2951A/S2953B/S2951D/S2953E/S2951K)	
R020	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R218	1-249-389-11	CARBON 4.7 5%	1/4W F
R021	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R219	1-249-389-11	CARBON 4.7 5%	1/4W F
R025	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R221	1-216-091-00	METAL GLAZE 56K 5%	1/10W
R028	1-216-089-91	METAL GLAZE 47K 5%	1/10W			(KV-S2951A/S2953B/S2951D/S2953E/S2951K)	
R029	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R222	1-249-389-11	CARBON 4.7 5%	1/4W F
R030	1-216-025-91	METAL GLAZE 100 5%	1/10W	R241	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
						(KV-S2951A/S2953B/S2951D/S2953E/S2951K)	
R031	1-216-041-00	METAL GLAZE 470 5%	1/10W	R242	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R032	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R243	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R033	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R244	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R034	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R246	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R035	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W			(KV-S2951A/S2953B/S2951D/S2953E/S2951K)	
R036	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R247	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R037	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R248	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R038	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R249	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R047	1-216-101-00	METAL GLAZE 150K 5%	1/10W	R250	1-216-065-91	METAL GLAZE 4.7K 5%	1/10W
R048	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R251	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R049	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R253	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R050	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R257	1-216-041-00	METAL GLAZE 470 5%	1/10W
R051	1-216-295-91	METAL GLAZE 0 5%	1/10W	R258	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R052	1-216-295-91	METAL GLAZE 0 5%	1/10W	R259	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R054	1-216-041-00	METAL GLAZE 470 5%	1/10W	R260	1-216-041-00	METAL GLAZE 470 5%	1/10W
R062	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R261	1-216-065-91	METAL GLAZE 4.7K 5%	1/10W
R067	1-216-043-91	METAL GLAZE 560 5%	1/10W	R262	1-216-357-00	METAL OXIDE 4.7 5%	1W F
R068	1-216-043-91	METAL GLAZE 560 5%	1/10W	R263	1-216-357-00	METAL OXIDE 4.7 5%	1W F
R069	1-216-037-00	METAL GLAZE 330 5%	1/10W	R264	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R072	1-216-033-00	METAL GLAZE 220 5%	1/10W	R265	1-216-079-91	METAL GLAZE 18K 5%	1/10W



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R266	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R373	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R267	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R375	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R268	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R269	1-216-039-00	METAL GLAZE	390 5% 1/10W	R376	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R270	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R377	1-216-033-00	METAL GLAZE	220 5% 1/10W
				R378	1-216-033-00	METAL GLAZE	220 5% 1/10W
R271	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R379	1-216-025-91	METAL GLAZE	100 5% 1/10W
R272	1-216-025-91	METAL GLAZE	100 5% 1/10W	R380	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R273	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R274	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R384	1-216-022-00	METAL GLAZE	75 5% 1/10W
R275	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R385	1-216-022-00	METAL GLAZE	75 5% 1/10W
				R386	1-216-022-00	METAL GLAZE	75 5% 1/10W
R276	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R575	1-216-033-00	METAL GLAZE	220 5% 1/10W
R277	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R576	1-216-033-00	METAL GLAZE	220 5% 1/10W
R278	1-216-103-91	METAL GLAZE	180K 5% 1/10W				
R279	1-216-103-91	METAL GLAZE	180K 5% 1/10W	R578	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R280	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R579	1-216-049-91	METAL GLAZE	1K 5% 1/10W
				R580	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R282	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R581	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
R284	1-216-041-00	METAL GLAZE	470 5% 1/10W	R582	1-216-047-91	METAL GLAZE	820 5% 1/10W
R285	1-216-075-00	METAL GLAZE	12K 5% 1/10W				
R286	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R583	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R287	1-216-041-00	METAL GLAZE	470 5% 1/10W	R584	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
				R587	1-216-017-91	METAL GLAZE	47 5% 1/10W
R288	1-216-065-91	METAL GLAZE	4.7K 5% 1/10W	R588	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R289	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R681	1-216-471-11	METAL OXIDE	27 5% 3W F
R290	1-216-357-00	METAL OXIDE	4.7 5% 1W F				
R291	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R682	1-249-407-11	CARBON	150 5% 1/4W
R292	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R683	1-216-041-00	METAL GLAZE	470 5% 1/10W
				R684	1-249-419-11	CARBON	1.5K 5% 1/4W
R293	1-216-033-00	METAL GLAZE	220 5% 1/10W	R685	1-247-807-31	CARBON	100 5% 1/4W
R294	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1001	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R295	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R296	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1005	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R297	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W	R1006	1-216-049-91	METAL GLAZE	1K 5% 1/10W
				R1007	1-216-033-00	METAL GLAZE	220 5% 1/10W
R298	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W	R1008	1-216-025-91	METAL GLAZE	100 5% 1/10W
R299	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1009	1-216-025-91	METAL GLAZE	100 5% 1/10W
R351	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R352	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1017	1-216-033-00	METAL GLAZE	220 5% 1/10W
R353	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1018	1-216-033-00	METAL GLAZE	220 5% 1/10W
				R1019	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R354	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1020	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R355	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	R1022	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R356	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W				
R357	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	R1023	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R358	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1024	1-216-049-91	METAL GLAZE	1K 5% 1/10W
				R1025	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R359	1-216-295-91	METAL GLAZE	0 5% 1/10W (KV-S2953E/S2951K/S2952U)	R1026	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R360	1-216-295-91	METAL GLAZE	0 5% 1/10W (KV-S2953B)	R1027	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R361	1-216-295-91	METAL GLAZE	0 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K/S2952U)	R1028	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R362	1-216-295-91	METAL GLAZE	0 5% 1/10W (KV-S2953B)				
R364	1-216-295-91	METAL GLAZE	0 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K/S2952U)				
R365	1-216-295-91	METAL GLAZE	0 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K/S2952U)				
R366	1-216-295-91	METAL GLAZE	0 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K/S2952U)				
R367	1-216-295-91	METAL GLAZE	0 5% 1/10W (KV-S2953B)				
R368	1-216-295-91	METAL GLAZE	0 5% 1/10W (KV-S2953B)				
R369	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1101	1-216-025-91	METAL GLAZE	100 5% 1/10W
R371	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1102	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R372	1-216-043-91	METAL GLAZE	560 5% 1/10W	R1103	1-216-134-00	METAL GLAZE	2.2 5% 1/8W
				R1104	1-216-085-00	METAL GLAZE	33K 5% 1/10W
				R1105	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
				R1106	1-216-049-91	METAL GLAZE	1K 5% 1/10W
				R1107	1-216-049-91	METAL GLAZE	1K 5% 1/10W
				R1108	1-216-121-91	METAL GLAZE	1M 5% 1/10W
				R1109	1-216-121-91	METAL GLAZE	1M 5% 1/10W
				R1110	1-216-150-91	METAL GLAZE	10 5% 1/8W
				R1111	1-216-025-91	METAL GLAZE	100 5% 1/10W
				R1112	1-216-025-91	METAL GLAZE	100 5% 1/10W
				R1113	1-216-117-00	METAL GLAZE	680K 5% 1/10W
				R1114	1-216-158-00	METAL GLAZE	22 5% 1/8W

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< R1115 - R1151 FITTED ON > < KV-S2953B/S2953E/S2952U >				R1557	1-216-037-91	METAL GLAZE 330 5%	1/10W
R1115	1-216-121-91	METAL GLAZE 1M 5%	1/10W	R1558	1-216-025-91	METAL GLAZE 100 5%	1/10W
R1116	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1561	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1117	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R1562	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R1118	1-216-134-00	METAL GLAZE 2.2 5%	1/8W	R1563	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R1119	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W	R1564	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1124	1-216-089-91	METAL GLAZE 47K 5%	1/10W	R1565	1-216-282-00	METAL GLAZE 3.3M 5%	1/8W
R1125	1-216-097-91	METAL GLAZE 100K 5%	1/10W	R1568	1-216-103-91	METAL GLAZE 180K 5%	1/10W
R1132	1-216-097-91	METAL GLAZE 100K 5%	1/10W	R1569	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1133	1-216-089-91	METAL GLAZE 47K 5%	1/10W	(KV-S2951A/S2953B/S2951D/S2953E/S2952U)			
R1144	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R1570	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R1145	1-216-001-00	METAL GLAZE 10 5%	1/10W	R1571	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R1146	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R1572	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1147	1-216-039-00	METAL GLAZE 390 5%	1/10W	(KV-S2951A/S2953B/S2951D/S2953E/S2952U)			
R1148	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R1573	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1149	1-216-001-00	METAL GLAZE 10 5%	1/10W	R1574	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R1150	1-216-039-00	METAL GLAZE 390 5%	1/10W	R1575	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R1151	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R1576	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1501	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W	R1577	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1502	1-216-659-11	METAL CHIP 2.2K 0.50%	1/10W	R1578	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R1503	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R1579	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1504	1-216-025-91	METAL GLAZE 100 5%	1/10W	(KV-S2951A/S2953B/S2951D/S2953E/S2952U)			
R1505	1-216-025-91	METAL GLAZE 100 5%	1/10W	R1580	1-215-867-00	METAL OXIDE 470 5%	1W F
R1506	1-216-025-91	METAL GLAZE 100 5%	1/10W	R1581	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1509	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R1582	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1512	1-216-079-00	METAL GLAZE 18K 5%	1/10W	R1583	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1513	1-216-667-11	METAL CHIP 4.7K 0.50%	1/10W	R1584	1-208-822-11	METAL CHIP 47K 0.50%	1/10W
R1514	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R1585	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1515	1-215-455-00	METAL 27K 1%	1/4W	R1586	1-208-806-11	METAL CHIP 10K 0.50%	1/10W
R1516	1-249-385-11	CARBON 2.2 5%	1/4W F	R1587	1-216-677-11	METAL CHIP 12K 0.50%	1/10W
R1517	1-216-371-00	METAL OXIDE 1.5 5%	2W F	R1588	1-216-295-91	METAL GLAZE 0 5%	1/10W
R1519	1-216-475-11	METAL OXIDE 120 5%	3W F	R1589	1-216-295-91	METAL GLAZE 0 5%	1/10W
R1520	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R1591	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1521	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R1592	1-216-069-91	METAL GLAZE 6.8K 5%	1/10W
R1522	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R1593	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1523	1-216-105-91	METAL GLAZE 220K 5%	1/10W	R1594	1-216-286-00	METAL GLAZE 4.7M 5%	1/8W
R1524	1-216-105-91	METAL GLAZE 220K 5%	1/10W	R1595	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R1526	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R1597	1-216-109-00	METAL GLAZE 330K 5%	1/10W
R1527	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R1601	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R1529	1-216-057-91	METAL GLAZE 2.2K 5%	1/10W	R1602	1-216-129-00	METAL GLAZE 2.2M 5%	1/10W
R1531	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R1604	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W
R1532	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W	R1605	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1534	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W	R1607	1-216-101-00	METAL GLAZE 150K 5%	1/10W
R1539	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R1608	1-216-119-00	METAL GLAZE 820K 5%	1/10W
R1540	1-216-045-00	METAL GLAZE 680 5%	1/10W	R1609	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R1541	1-216-037-00	METAL GLAZE 330 5%	1/10W	R1610	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R1542	1-216-182-00	METAL GLAZE 220 5%	1/8W	R1611	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R1543	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1612	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1544	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1613	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R1545	1-216-673-11	METAL CHIP 8.2K 0.50%	1/10W	R1615	1-216-025-91	METAL GLAZE 100 5%	1/10W
R1546	1-216-025-91	METAL GLAZE 100 5%	1/10W	R1616	1-216-105-91	METAL GLAZE 220K 5%	1/10W
R1547	1-216-025-91	METAL GLAZE 100 5%	1/10W	R1617	1-216-025-91	METAL GLAZE 100 5%	1/10W
R1548	1-216-295-91	METAL GLAZE 0 5%	1/10W	R1618	1-216-025-91	METAL GLAZE 100 5%	1/10W
R1549	1-216-045-91	METAL GLAZE 680 5%	1/10W	R2002	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1553	1-216-025-91	METAL GLAZE 100 5%	1/10W	R2003	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1554	1-216-025-91	METAL GLAZE 100 5%	1/10W	R2005	1-216-041-00	METAL GLAZE 470 5%	1/10W
R1555	1-216-049-91	METAL GLAZE 1K 5%	1/10W	R2007	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1556	1-216-089-91	METAL GLAZE 47K 5%	1/10W	R2008	1-216-025-91	METAL GLAZE 100 5%	1/10W
				R2009	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
				R2010	1-216-025-91	METAL GLAZE 100 5%	1/10W

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IF ( KV-S2951A/S2951D/S2953E )  
KV-S2951K/S2952U

REF.NO.	PART NO.	DESCRIPTION	REMARK
R2011	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R2012	1-216-017-91	METAL GLAZE 47 5%	1/10W
R2013	1-216-017-91	METAL GLAZE 47 5%	1/10W
R2014	1-216-017-91	METAL GLAZE 47 5%	1/10W
R2022	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R2023	1-216-295-91	METAL GLAZE 0 5%	1/10W
R2024	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R2025	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W
R2026	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R2029	1-216-091-00	METAL GLAZE 56K 5%	1/10W
R2030	1-216-025-91	METAL GLAZE 100 5%	1/10W
R2031	1-216-295-91	METAL GLAZE 0 5%	1/10W
R2032	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R2033	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2034	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2035	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R2036	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R2037	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R2038	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R2039	1-216-093-00	METAL GLAZE 68K 5%	1/10W
R2040	1-216-125-00	METAL GLAZE 1.5M 5%	1/10W
R2701	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2702	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2703	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2704	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2705	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2706	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2707	1-216-295-91	METAL GLAZE 0 5%	1/10W
R2708	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2713	1-216-295-91	METAL GLAZE 0 5%	1/10W
< THERMISTOR >			
TH1501	1-810-035-21	THERMISTOR	
< TUNER >			
TU101	1-693-315-11	TUNER (UV1316)	
		(KV-S2951A/S2953B/S2951D/S2953E/S2951K)	
	1-693-314-11	TUNER (U1344) (KV-S2952U)	
< CRYSTAL >			
X1001	1-577-082-11	VIBRATOR, CERAMIC (4MHZ)	
X1101	1-579-689-21	VIBRATOR, CRYSTAL (8.192MHZ)	
		(KV-S2953B/S2953E/S2952U)	
X1531	1-760-895-21	VIBRATOR, CERAMIC (2.69MHZ)	
X2001	1-760-551-21	VIBRATOR, CERAMIC (20.5MHZ)	
*****			
	1-473-191-11	IF BLOCK (IFH-389WE) (KV-S2951A/S2951D/	
		***** S2953E)	
	1-467-873-12	IF BLOCK (IFH-389EE) (KV-S2951K)	
		*****	
	1-473-190-11	IF BLOCK (IFH-395GB) (KV-S2952U)	
		*****	
< CAPACITOR >			
C01	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C02	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
C03	1-164-337-11	CERAMIC CHIP 2.2MF	16V
C04	1-164-337-11	CERAMIC CHIP 2.2MF	16V
C05	1-126-965-11	ELECT 22MF	20% 50V
C06	1-126-965-11	ELECT 22MF	20% 50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C07	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V
C08	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C09	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C10	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
C11	1-164-337-11	CERAMIC CHIP 2.2MF	16V
C12	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C13	1-124-910-11	ELECT 47MF	20% 50V
C14	1-124-910-11	ELECT 47MF	20% 50V
C15	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C16	1-164-346-11	CERAMIC CHIP 1MF	16V
C17	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C18	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C19	1-164-346-11	CERAMIC CHIP 1MF	16V
C20	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C21	1-164-222-11	CERAMIC CHIP 0.22MF	25V
C22	1-124-910-11	ELECT 47MF	20% 50V
C23	1-124-910-11	ELECT 47MF	20% 50V
		(KV-S2951A/S2951D/S2953E/S2951K)	
C24	1-124-910-11	ELECT 47MF	20% 50V
C25	1-124-910-11	ELECT 47MF	20% 50V
		(KV-S2951A/S2951D/S2953E/S2951K)	
C26	1-124-910-11	ELECT 47MF	20% 50V
C27	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C28	1-124-910-11	ELECT 47MF	20% 50V
C29	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C30	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C31	1-124-910-11	ELECT 47MF	20% 50V
C32	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C33	1-163-086-00	CERAMIC CHIP 3PF	0.25PF 50V
C34	1-124-910-11	ELECT 47MF	20% 50V
C35	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C36	1-104-666-11	ELECT 220MF	20% 6.3V
		(KV-S2951K)	
C37	1-163-249-11	CERAMIC CHIP 82PF	5% 50V
		(KV-S2951K)	
C38	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
		(KV-S2951A/S2951D/S2953E)	
	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
		(KV-S2951K)	
	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
		(KV-S2952U)	
C39	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
		(KV-S2951K)	
< FILTER >			
CF01	1-760-416-21	FILTER, CERAMIC	
		(KV-S2951A/S2951D/S2953E/S2951K)	
CF02	1-760-449-11	FILTER, CERAMIC (KV-S2951K)	
CF03	1-760-450-11	FILTER, CERAMIC	
		(KV-S2951A/S2951D/S2953E/S2951K)	
CF04	1-760-106-11	TRAP, CERAMIC	
		(KV-S2951A/S2951D/S2953E/S2951K)	
	1-567-100-00	FILTER, CERAMIC (KV-S2952U)	
CF05	1-404-134-00	TRAP, CERAMIC (5.5MHZ)	
		(KV-S2951A/S2951D/S2953E/S2951K)	
	1-409-333-00	TRAP, CERAMIC (6.0MHZ) (KV-S2952U)	
SAW01	1-760-538-11	FILTER, SURFACE WAVE	
		(KV-S2951A/S2951D/S2953E/S2951K)	
	1-760-757-11	FILTER, SURFACE WAVE (KV-S2952U)	

**IF ( KV-S2951A/S2951D/S2953E )**  
**KV-S2951K/S2952U**

REF.NO.	PART NO.	DESCRIPTION	REMARK
< CONNECTOR >			
CN01	1-750-919-11	PIN, CONNECTOR (PC BOARD) 10P	
CN02	1-750-919-11	PIN, CONNECTOR (PC BOARD) 10P	
< DIODE >			
D01	8-719-421-57	DIODE MA73-TX (KV-S2951A/S2951D/S2953E/S2951K)	
D02	8-719-421-57	DIODE MA73-TX (KV-S2951A/S2951D/S2953E/S2951K)	
	1-216-296-91	METAL GLAZE 0 5% 1/8W (KV-S2952U)	
D03	8-719-914-43	DIODE DAN202K	
< IC >			
IC01	8-759-289-18	IC TDA9813T-T	
IC02	8-759-514-54	IC BA7046	
IC03	8-759-991-41	IC L78L05ACZ-AP	
< COIL >			
L01	1-408-409-00	INDUCTOR 10UH (KV-S2951A/S2951D/S2953E)	
	1-408-407-00	INDUCTOR 6.8UH (KV-S2951K)	
	1-408-408-00	INDUCTOR 6.8UH (KV-S2952U)	
L02	1-403-686-11	COIL	
L03	1-408-419-00	INDUCTOR 68UH	
L04	1-408-419-00	INDUCTOR 68UH	
L05	1-410-790-41	INDUCTOR 0.56UH	
L06	1-408-419-00	INDUCTOR 68UH	
L07	1-408-408-00	INDUCTOR 8.2UH (KV-S2951K)	
< TRANSISTOR >			
Q01	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q02	8-729-901-01	TRANSISTOR DTC144EK (KV-S2951A/S2951D/S2953E/S2951K)	
Q03	8-729-901-01	TRANSISTOR DTC144EK (KV-S2951A/S2951D/S2953E/S2951K)	
Q04	8-729-216-22	TRANSISTOR 2SA1162-G	
Q05	8-729-216-22	TRANSISTOR 2SA1162-G	
Q06	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q07	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q08	8-729-920-74	TRANSISTOR 2SC2412K-QR (KV-S2951A/S2951D/S2953E/S2951K)	
Q09	8-729-920-74	TRANSISTOR 2SC2412K-QR (KV-S2951A/S2951D/S2953E/S2951K)	
Q10	8-729-920-74	TRANSISTOR 2SC2412K-QR (KV-S2951K)	
< RESISTOR >			
JR01	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR02	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR03	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR04	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR05	1-216-295-91	METAL GLAZE 0 5% 1/10W (KV-S2951A/S2951D/S2953E/S2952U)	
JR06	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR10	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR11	1-216-296-91	METAL GLAZE 0 5% 1/8W	
R01	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R02	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R03	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R04	1-216-041-00	METAL GLAZE 470 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R05	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R06	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)	
R07	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)	
R08	1-216-039-00	METAL GLAZE 390 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)	
R09	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R10	1-216-081-00	METAL GLAZE 22K 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)	
R11	1-216-081-00	METAL GLAZE 22K 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)	
R12	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R13	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R14	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R15	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R17	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R18	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
R19	1-216-242-91	METAL GLAZE 68K 5% 1/8W	
R20	1-216-033-00	METAL GLAZE 180 5% 1/10W (KV-S2951A/S2951D/S2953E)	
	1-216-031-00	METAL GLAZE 180 5% 1/10W (KV-S2951K/S2952U)	
R21	1-216-049-91	METAL GLAZE 1K 5% 1/10W (KV-S2951A/S2951D/S2953E)	
	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W (KV-S2951K)	
	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W (KV-S2952U)	
R22	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R23	1-218-755-11	METAL CHIP 130K 0.50% 1/10W	
R24	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W	
R25	1-216-107-00	METAL GLAZE 270K 5% 1/10W	
R26	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R27	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R28	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R29	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R30	1-216-198-91	METAL GLAZE 1K 5% 1/8W	
R31	1-216-198-91	METAL GLAZE 1K 5% 1/8W	
R32	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R33	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R34	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R35	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R36	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R37	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)	
R38	1-216-095-00	METAL GLAZE 82K 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)	
R39	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)	
R40	1-216-075-00	METAL GLAZE 12K 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)	
R41	1-216-083-00	METAL GLAZE 27K 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)	
R42	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R43	1-216-037-00	METAL GLAZE 330 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)	
R44	1-216-037-00	METAL GLAZE 330 5% 1/10W	

IF ( KV-S2951A/S2951D/S2953E )  
KV-S2951K/S2952U

IF ( KV-S2953B )

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R45	1-216-198-91	METAL GLAZE 1K 5% 1/8W (KV-S2951A/S2951D/S2953E/S2952U)		C134	1-163-239-11	CERAMIC CHIP 33PF 5%	50V
	1-216-194-00	METAL GLAZE 680 5% 1/8W (KV-S2951K)		C135	1-124-477-11	ELECT 47MF 20%	16V
R46	1-216-049-91	METAL GLAZE 1K 5% 1/10W		C141	1-163-249-11	CERAMIC CHIP 82PF 5%	50V
R47	1-216-198-91	METAL GLAZE 1K 5% 1/8W		C143	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
R48	1-216-049-91	METAL GLAZE 1K 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)		C145	1-124-477-11	ELECT 47MF 20%	16V
R49	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W		C151	1-124-477-11	ELECT 47MF 20%	16V
R50	1-216-039-00	METAL GLAZE 390 5% 1/10W		C152	1-124-477-11	ELECT 47MF 20%	16V
R51	1-216-039-00	METAL GLAZE 390 5% 1/10W (KV-S2951K)		C161	1-124-477-11	ELECT 47MF 20%	16V
R52	1-216-039-00	METAL GLAZE 390 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)		C162	1-124-477-11	ELECT 47MF 20%	16V
R53	1-216-083-00	METAL GLAZE 27K 5% 1/10W (KV-S2951K)		C173	1-163-017-00	CERAMIC CHIP 0.0047MF 10%	50V
R54	1-216-075-00	METAL GLAZE 12K 5% 1/10W (KV-S2951K)		C174	1-163-227-11	CERAMIC CHIP 10PF 0.5PF	50V
R55	1-216-045-00	METAL GLAZE 680 5% 1/10W (KV-S2951K)		C175	1-163-227-11	CERAMIC CHIP 10PF 0.5PF	50V
R56	1-216-045-00	METAL GLAZE 680 5% 1/10W (KV-S2951K)		C177	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
R57	1-216-295-91	METAL GLAZE 0 5% 1/10W (KV-S2951A/S2951D/S2953E/S2952U)		C191	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
	1-216-043-91	METAL GLAZE 560 5% 1/10W (KV-S2951K)		C201	1-164-346-11	CERAMIC CHIP 1MF 16V	
R58	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W		C202	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
R59	1-216-041-00	METAL GLAZE 470 5% 1/10W (KV-S2951K)		C203	1-124-477-11	ELECT 47MF 20%	16V
R60	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W (KV-S2952U)		C204	1-164-346-11	CERAMIC CHIP 1MF 16V	
R61	1-216-025-91	METAL GLAZE 100 5% 1/10W (KV-S2951A/S2951D/S2953E/S2952U)		C205	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
< VARIABLE RESISTOR >				C206	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
RV01	1-241-786-11	RES, ADJ, CARBON 22K		C207	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
*****				C208	1-163-141-00	CERAMIC CHIP 0.001MF 5%	50V
	1-467-573-13	IF BLOCK (IFH-389FX) (KV-S2953B)		C302	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
< CAPACITOR >				C502	1-124-477-11	ELECT 47MF 20%	16V
C101	1-163-017-00	CERAMIC CHIP 0.0047MF 10%	50V	C503	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C102	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V	C901	1-124-477-11	ELECT 47MF 20%	16V
C104	1-163-017-00	CERAMIC CHIP 0.0047MF 10%	50V	C902	1-163-059-01	CERAMIC CHIP 0.01MF 10%	50V
C111	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V	< FILTER >			
C112	1-163-133-00	CERAMIC CHIP 470PF 5%	50V	CF171	1-567-100-00	FILTER, CERAMIC	
C113	1-164-489-11	CERAMIC CHIP 0.22MF 10%	16V	CF172	1-567-101-11	FILTER, CERAMIC	
C114	1-124-925-11	ELECT 2.2MF 20%	50V	CF173	1-760-107-21	FILTER, CERAMIC	
C115	1-124-916-11	ELECT 22MF 20%	50V	CF174	1-760-106-21	FILTER, CERAMIC	
C116	1-124-916-11	ELECT 22MF 20%	50V	SWF101	1-579-273-11	FILTER, SURFACE WAVE	
C117	1-163-090-00	CERAMIC CHIP 7PF 0.25PF	50V	SWF103	1-760-244-21	FILTER, SURFACE WAVE	
C120	1-124-925-11	ELECT 2.2MF 20%	50V	< CONNECTOR >			
C121	1-124-925-11	ELECT 2.2MF 20%	50V	CN1	1-750-919-11	PIN, CONNECTOR (PC BOARD) 10P	
C122	1-164-489-11	CERAMIC CHIP 0.22MF 10%	16V	CN2	1-750-919-11	PIN, CONNECTOR (PC BOARD) 10P	
C123	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V	< TRIMMER >			
C126	1-163-085-00	CERAMIC CHIP 2PF 0.25PF	50V	CT101	1-760-154-21	TRAP, CERAMIC	
C128	1-164-489-11	CERAMIC CHIP 0.22MF 10%	16V	CT131	1-409-430-11	TRAP, CERAMIC	
C131	1-163-113-00	CERAMIC CHIP 68PF 5%	50V	< DIODE >			
C132	1-163-097-00	CERAMIC CHIP 15PF 5%	50V	D101	8-719-914-43	DIODE DAN202K	
C133	1-163-113-00	CERAMIC CHIP 68PF 5%	50V	D171	8-719-914-43	DIODE DAN202K	
				D201	8-719-914-43	DIODE DAN202K	
< IC >				< IC >			
				IC1	8-759-193-13	IC TDA9815	
				IC2	8-759-514-54	IC BA7046	
				IC3	8-752-069-79	IC CXA1875M	
				IC4	8-759-710-86	IC NJM2233BM	
< COIL >				< COIL >			
				L101	1-408-419-00	INDUCTOR 68UH	
				L102	1-410-985-11	INDUCTOR CHIP 0.22UH	
				L131	1-408-407-00	INDUCTOR 6.8UH	

IF (KV-S2953B)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
L132	1-410-426-21	INDUCTOR	39UH	JR132	1-216-296-00	METAL GLAZE	0 5% 1/8W
L142	1-408-409-00	INDUCTOR	10UH	JR133	1-216-296-00	METAL GLAZE	0 5% 1/8W
L171	1-408-609-41	INDUCTOR	33UH	JR134	1-216-295-91	METAL GLAZE	0 5% 1/10W
L201	1-408-419-00	INDUCTOR	68UH	JR135	1-216-296-00	METAL GLAZE	0 5% 1/8W
L501	1-408-411-00	INDUCTOR	15UH	JR136	1-216-295-91	METAL GLAZE	0 5% 1/10W
L901	1-408-411-00	INDUCTOR	15UH	JR137	1-216-296-00	METAL GLAZE	0 5% 1/8W
< TRANSISTOR >				JR138	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q101	8-729-104-80	TRANSISTOR	2SC3355	JR140	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q102	8-729-901-01	TRANSISTOR	DTC144EK	JR141	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q104	8-729-901-01	TRANSISTOR	DTC144EK	JR142	1-216-295-91	METAL GLAZE	0 5% 1/10W
Q121	8-729-216-22	TRANSISTOR	2SA1162-G	JR143	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q131	8-729-920-74	TRANSISTOR	2SC2412K-QR	JR145	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q132	8-729-920-74	TRANSISTOR	2SC2412K-QR	JR146	1-216-295-91	METAL GLAZE	0 5% 1/10W
Q141	8-729-920-74	TRANSISTOR	2SC2412K-QR	JR150	1-216-295-91	METAL GLAZE	0 5% 1/10W
Q142	8-729-920-74	TRANSISTOR	2SC2412K-QR	JR152	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q151	8-729-920-74	TRANSISTOR	2SC2412K-QR	JR154	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q152	8-729-920-74	TRANSISTOR	2SC2412K-QR	JR160	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q153	8-729-920-74	TRANSISTOR	2SC2412K-QR	JR161	1-216-295-91	METAL GLAZE	0 5% 1/10W
Q154	8-729-901-01	TRANSISTOR	DTC144EK	JR162	1-216-295-91	METAL GLAZE	0 5% 1/10W
Q161	8-729-920-74	TRANSISTOR	2SC2412K-QR	JR166	1-216-295-91	METAL GLAZE	0 5% 1/10W
Q162	8-729-920-74	TRANSISTOR	2SC2412K-QR	JR167	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q171	8-729-216-22	TRANSISTOR	2SA1162-G	R100	1-216-025-00	METAL GLAZE	100 5% 1/10W
Q174	8-729-901-01	TRANSISTOR	DTC144EK	R102	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
Q175	8-729-901-01	TRANSISTOR	DTC144EK	R103	1-216-001-00	METAL GLAZE	10 5% 1/10W
Q176	8-729-901-01	TRANSISTOR	DTC144EK	R104	1-216-176-11	METAL GLAZE	120 5% 1/8W
Q181	8-729-920-74	TRANSISTOR	2SC2412K-QR	R105	1-216-017-00	METAL GLAZE	47 5% 1/10W
Q191	8-729-216-22	TRANSISTOR	2SA1162-G	R106	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q201	8-729-216-22	TRANSISTOR	2SA1162-G	R107	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
< RESISTOR >				R109	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR101	1-216-295-91	METAL GLAZE	0 5% 1/10W	R111	1-216-295-91	METAL GLAZE	0 5% 1/10W
JR102	1-216-296-00	METAL GLAZE	0 5% 1/8W	R113	1-216-031-00	METAL GLAZE	180 5% 1/10W
JR103	1-216-296-00	METAL GLAZE	0 5% 1/8W	R114	1-216-035-00	METAL GLAZE	270 5% 1/10W
JR104	1-216-295-91	METAL GLAZE	0 5% 1/10W	R115	1-216-035-00	METAL GLAZE	270 5% 1/10W
JR106	1-216-296-00	METAL GLAZE	0 5% 1/8W	R116	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR107	1-216-295-91	METAL GLAZE	0 5% 1/10W	R117	1-216-031-00	METAL GLAZE	180 5% 1/10W
JR109	1-216-295-91	METAL GLAZE	0 5% 1/10W	R118	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
JR110	1-216-295-91	METAL GLAZE	0 5% 1/10W	R120	1-216-180-00	METAL GLAZE	180 5% 1/8W
JR111	1-216-296-00	METAL GLAZE	0 5% 1/8W	R131	1-216-198-91	METAL GLAZE	1K 5% 1/8W
JR112	1-216-295-91	METAL GLAZE	0 5% 1/10W	R133	1-216-031-00	METAL GLAZE	180 5% 1/10W
JR113	1-216-296-00	METAL GLAZE	0 5% 1/8W	R134	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR114	1-216-295-91	METAL GLAZE	0 5% 1/10W	R135	1-216-295-91	METAL GLAZE	0 5% 1/10W
JR115	1-216-295-91	METAL GLAZE	0 5% 1/10W	R136	1-216-041-00	METAL GLAZE	470 5% 1/10W
JR116	1-216-296-00	METAL GLAZE	0 5% 1/8W	R137	1-216-041-00	METAL GLAZE	470 5% 1/10W
JR117	1-216-296-00	METAL GLAZE	0 5% 1/8W	R138	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR118	1-216-296-00	METAL GLAZE	0 5% 1/8W	R139	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
JR119	1-216-296-00	METAL GLAZE	0 5% 1/8W	R140	1-216-295-91	METAL GLAZE	0 5% 1/10W
JR120	1-216-295-91	METAL GLAZE	0 5% 1/10W	R142	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR121	1-216-296-00	METAL GLAZE	0 5% 1/8W	R144	1-216-041-00	METAL GLAZE	470 5% 1/10W
JR122	1-216-296-00	METAL GLAZE	0 5% 1/8W	R145	1-216-041-00	METAL GLAZE	470 5% 1/10W
JR123	1-216-296-00	METAL GLAZE	0 5% 1/8W	R146	1-216-043-00	METAL GLAZE	560 5% 1/10W
JR124	1-216-296-00	METAL GLAZE	0 5% 1/8W	R147	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR125	1-216-295-91	METAL GLAZE	0 5% 1/10W	R148	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR126	1-216-295-91	METAL GLAZE	0 5% 1/10W	R149	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR127	1-216-296-00	METAL GLAZE	0 5% 1/8W	R151	1-216-226-00	METAL GLAZE	15K 5% 1/8W
JR128	1-216-295-91	METAL GLAZE	0 5% 1/10W	R152	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
JR129	1-216-295-91	METAL GLAZE	0 5% 1/10W	R153	1-216-689-11	METAL GLAZE	39K 5% 1/10W
JR130	1-216-296-00	METAL GLAZE	0 5% 1/8W	R154	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR131	1-216-296-00	METAL GLAZE	0 5% 1/8W	R155	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
				R156	1-216-037-00	METAL GLAZE	330 5% 1/10W
				R161	1-216-079-00	METAL GLAZE	18K 5% 1/10W



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IF (KV-S2953B)

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R162	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W	C605	1-137-399-11	FILM 0.1MF 5%	50V
R163	1-216-689-11	METAL GLAZE 39K 5%	1/10W	C606	1-136-171-00	FILM 0.33MF 5%	50V
R164	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	C607	1-137-399-11	FILM 0.1MF 5%	50V
R165	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	C608	1-164-625-11	CERAMIC 680PF 10%	500V
R166	1-216-037-00	METAL GLAZE 330 5%	1/10W	C609	1-129-718-00	FILM 0.022MF 5%	630V
R167	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C610	1-126-953-11	ELECT 2200MF 20%	35V
R168	1-216-212-00	METAL GLAZE 3.9K 5%	1/8W	C611	1-126-953-11	ELECT 2200MF 20%	35V
R169	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	C613	1-128-548-11	ELECT 4700MF 20%	25V
R171	1-216-045-00	METAL GLAZE 680 5%	1/10W	C614	1-128-548-11	ELECT 4700MF 20%	25V
R177	1-216-025-00	METAL GLAZE 100 5%	1/10W	C615	1-110-626-11	ELECT 330MF 20%	160V
R178	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	C616	1-164-625-11	CERAMIC 680PF 10%	500V
R179	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	C617	1-136-559-11	MYLAR 0.0047MF 10%	400V
R180	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	C618	1-104-889-91	MYLAR 0.0022MF 10%	400V
R181	1-216-041-00	METAL GLAZE 470 5%	1/10W	C619	1-136-165-00	FILM 0.1MF 5%	50V
R182	1-216-041-00	METAL GLAZE 470 5%	1/10W	C620	1-126-519-12	ELECT 47MF 20%	50V
R183	1-216-192-00	METAL GLAZE 560 5%	1/8W	<del>C621</del>	<del>1-136-518-12</del>	<del>FILM 0.47MF 20%</del>	<del>300V</del>
R184	1-216-043-00	METAL GLAZE 560 5%	1/10W	<del>C622</del>	<del>1-136-415-51</del>	<del>FILM 0.33MF 20%</del>	<del>300V</del>
R185	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	<del>C624</del>	<del>1-164-503-61</del>	<del>CERAMIC 0.0022MF 20%</del>	<del>400V</del>
R191	1-216-093-00	METAL GLAZE 68K 5%	1/10W	<del>C626</del>	<del>1-164-503-61</del>	<del>CERAMIC 0.0022MF 20%</del>	<del>400V</del>
R192	1-216-093-00	METAL GLAZE 68K 5%	1/10W	C627	1-126-940-11	ELECT 330MF 20%	25V
R193	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C628	1-126-965-11	ELECT 22MF 20%	50V
R194	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C629	1-162-599-12	CERAMIC 0.0047MF	250V
R195	1-216-216-00	METAL GLAZE 5.6K 5%	1/8W	C630	1-162-599-12	CERAMIC 0.0047MF	250V
R201	1-216-198-91	METAL GLAZE 1K 5%	1/8W	<del>C631</del>	<del>1-161-964-91</del>	<del>CERAMIC 0.0047MF</del>	<del>250V</del>
R202	1-216-107-00	METAL GLAZE 270K 5%	1/10W	C633	1-125-555-11	ELECT 330MF 20%	400V
R203	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C635	1-136-165-00	FILM 0.1MF 5%	50V
R204	1-216-113-00	METAL GLAZE 470K 5%	1/10W	C636	1-136-165-00	FILM 0.1MF 5%	50V
R205	1-218-755-11	METAL CHIP 130K 0.50%	1/10W	C637	1-126-964-11	ELECT 10MF 20%	50V
R206	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C638	1-126-964-11	ELECT 10MF 20%	50V
R207	1-216-113-00	METAL GLAZE 470K 5%	1/10W	C639	1-126-964-11	ELECT 10MF 20%	50V
R208	1-216-113-00	METAL GLAZE 470K 5%	1/10W	C645	1-102-002-91	CERAMIC 680PF 10%	500V
R209	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C646	1-136-171-00	FILM 0.33MF 5%	50V
R210	1-216-081-00	METAL GLAZE 22K 5%	1/10W	C647	1-136-171-00	FILM 0.33MF 5%	50V
R211	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C650	1-126-964-11	ELECT 10MF 20%	50V
R301	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C651	1-136-171-00	FILM 0.33MF 5%	50V
R302	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C652	1-136-171-00	FILM 0.33MF 5%	50V
R303	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C653	1-136-169-00	FILM 0.22MF 5%	50V
R306	1-216-049-00	METAL GLAZE 1K 5%	1/10W	< CONNECTOR >			
R308	1-216-073-00	METAL GLAZE 10K 5%	1/10W	<del>CN0008</del>	<del>1-508-786-11</del>	<del>PIN, CONNECTOR (5MM PITCH) 2P</del>	
R309	1-216-025-00	METAL GLAZE 100 5%	1/10W	<del>CN0009</del>	<del>1-508-765-11</del>	<del>PIN, CONNECTOR (5MM PITCH) 3P</del>	
R310	1-216-025-00	METAL GLAZE 100 5%	1/10W	CN0701	*1-564-516-11	PLUG, CONNECTOR 13P	
< VARIABLE RESISTOR >				<del>CN0722</del>	<del>*1-691-291-11</del>	<del>PIN, CONNECTOR (PC BOARD) 5P</del>	
RV111	1-241-786-11	RES, ADJ, CARBON 22K		< DIODE >			
RV112	1-241-765-11	RES, ADJ, CARBON 22K		D601	8-719-510-53	DIODE D4SB60L	
< TRANSFORMER >				D602	8-719-991-33	DIODE 1SS133T-77	
T111	1-403-686-22	COIL		D603	8-719-109-89	DIODE RD5.6ESB2	
*****				D605	8-719-047-31	DIODE RBA-402L	
*A-1636-010-A G BOARD, COMPLETE				D607	8-719-510-12	DIODE D10SC4M	
*****				D608	8-719-510-12	DIODE D10SC4M	
4-368-683-21 SPRING, TRANSISTOR				D609	8-719-047-31	DIODE RBA-402L	
4-382-854-11 SCREW (M3X10), P, SW (+)				D610	8-719-510-64	DIODE S2LA20F	
< CAPACITOR >				D612	8-719-911-19	DIODE 1SS119-25	
C602	1-165-127-11	CERAMIC 470PF 10%	500V	D613	8-719-911-19	DIODE 1SS119-25	
C603	1-165-127-11	CERAMIC 470PF 10%	500V	D614	8-719-911-19	DIODE 1SS119-25	
C604	1-136-171-00	FILM 0.33MF 5%	50V	D615	8-719-911-19	DIODE 1SS119-25	
				D616	8-719-911-19	DIODE 1SS119-25	
				D617	8-719-911-19	DIODE 1SS119-25	
				D618	8-719-911-19	DIODE 1SS119-25	


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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D619	8-719-911-19	DIODE 1SS119-25		< RESISTOR >			
D620	8-719-911-19	DIODE 1SS119-25		R601	1-202-933-61	FUSIBLE 0.1 10% 1/2W F	
D621	8-719-911-19	DIODE 1SS119-25		R602	1-247-891-00	CARBON 330K 5% 1/4W	
D622	8-719-510-64	DIODE S2LA20F		R603	1-247-891-00	CARBON 330K 5% 1/4W	
D623	8-719-510-64	DIODE S2LA20F		R604	1-216-369-00	METAL OXIDE 1 5% 2W F	
D624	8-719-312-39	DIODE R2K-V1		R605	1-247-891-00	CARBON 330K 5% 1/4W	
D625	8-719-911-19	DIODE 1SS119-25		R606	1-247-891-00	CARBON 330K 5% 1/4W	
D626	8-719-911-19	DIODE 1SS119-25		R607	1-216-369-00	METAL OXIDE 1 5% 2W F	
D627	8-719-911-19	DIODE 1SS119-25		R608	1-247-887-00	CARBON 220K 5% 1/4W	
D628	8-719-911-19	DIODE 1SS119-25		R609	1-249-429-11	CARBON 10K 5% 1/4W F	
D630	8-719-991-33	DIODE 1SS133T-77		R610	1-249-419-11	CARBON 1.5K 5% 1/4W F	
D631	8-719-991-33	DIODE 1SS133T-77		R616	$\Delta$ 1-205-949-11	WIREWOUND 1.8 5% 10W	
D632	8-719-991-33	DIODE 1SS133T-77		R618	$\Delta$ 1-205-949-11	WIREWOUND 1.8 5% 10W	
D633	8-719-991-33	DIODE 1SS133T-77		R619	$\Delta$ 1-244-945-91	CARBON 1M 5% 1/2W	
D634	8-719-991-33	DIODE 1SS133T-77		R620	$\Delta$ 1-218-265-91	METAL 8.2M 5% 1W	
< FERRITE BEAD >				R621	1-249-417-11	CARBON 1K 5% 1/4W F	
FB603	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		R622	1-249-430-11	CARBON 12K 5% 1/4W	
FB604	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		R623	1-249-436-11	CARBON 39K 5% 1/4W	
< IC >				R624	1-249-425-11	CARBON 4.7K 5% 1/4W	
IC601	1-810-051-11	POWER MODULE DM-48		R625	1-247-815-91	CARBON 220 5% 1/4W	
IC602	$\Delta$ 8-749-010-44	PHOTO COUPLER PC12382		R626	1-247-863-91	CARBON 22K 5% 1/4W	
< COIL >				R627	1-247-815-91	CARBON 220 5% 1/4W	
L601	1-412-525-41	INDUCTOR 10UH		R628	1-249-411-11	CARBON 330 5% 1/4W	
L602	1-412-525-41	INDUCTOR 10UH		R630	1-249-429-11	CARBON 10K 5% 1/4W	
L603	1-412-525-41	INDUCTOR 10UH		R631	1-215-477-00	METAL 220K 1% 1/4W	
L605	1-412-523-11	INDUCTOR 6.8UH		R632	1-249-417-11	CARBON 1K 5% 1/4W	
L606	1-412-523-11	INDUCTOR 6.8UH		R633	1-249-429-11	CARBON 10K 5% 1/4W	
< TRANSFORMER >				R634	1-247-895-91	CARBON 470K 5% 1/4W	
TF601	$\Delta$ 1-424-436-11	TRANSFORMER, LINE FILTER		R635	1-249-417-11	CARBON 1K 5% 1/4W	
TF601	$\Delta$ 1-429-255-11	TRANSFORMER, CONVERTER (P11)		R636	1-207-905-00	WIREWOUND 0.27 10% 2W F	
TF602	$\Delta$ 1-427-864-11	TRANSFORMER, CONVERTER (PRT)		R637	1-249-389-11	CARBON 4.7 5% 1/4W F	
< IC LINK >				R638	1-249-425-11	CARBON 4.7K 5% 1/4W	
PL601	$\Delta$ 1-532-686-91	LINK IC (ICP-N75) 2.7A		R639	1-247-791-91	CARBON 22 5% 1/4W	
PL602	$\Delta$ 1-532-686-91	LINK IC (ICP-N75) 2.7A		R640	1-247-791-91	CARBON 22 5% 1/4W	
PL603	$\Delta$ 1-532-686-91	LINK IC (ICP-N75) 2.7A		R641	1-247-791-91	CARBON 22 5% 1/4W	
PL604	$\Delta$ 1-532-845-21	LINK IC (PRP4000) 4A		R642	1-247-791-91	CARBON 22 5% 1/4W	
< TRANSISTOR >				R644	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q601	8-729-032-87	TRANSISTOR 2SC4834NP-F09		R645	1-249-415-11	CARBON 680 5% 1/4W	
Q602	8-729-032-87	TRANSISTOR 2SC4834NP-F09		R646	1-249-403-11	CARBON 68 5% 1/4W	
Q603	8-729-119-78	TRANSISTOR 2SC2785-HFE		R647	1-249-429-11	CARBON 10K 5% 1/4W	
Q604	8-729-200-21	TRANSISTOR 2SC2500-B		R651	1-215-880-00	METAL OXIDE 10 5% 2W F	
Q605	8-729-173-38	TRANSISTOR 2SA733-K		R652	1-247-891-00	CARBON 330K 5% 1/4W	
Q606	8-729-119-78	TRANSISTOR 2SC2785-HFE		R653	1-247-891-00	CARBON 330K 5% 1/4W	
Q607	8-729-029-56	TRANSISTOR DTA144ESA		R654	1-247-891-00	CARBON 330K 5% 1/4W	
Q608	8-729-119-78	TRANSISTOR 2SC2785-HFE		R655	1-247-891-00	CARBON 330K 5% 1/4W	
Q610	8-729-173-38	TRANSISTOR 2SA733-K		R656	1-249-439-11	CARBON 68K 5% 1/4W	
Q611	8-729-119-78	TRANSISTOR 2SC2785-HFE		R657	1-249-429-11	CARBON 10K 5% 1/4W	
Q612	8-729-173-38	TRANSISTOR 2SA733-K		R658	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q613	8-729-030-03	TRANSISTOR DTC144ESA-TP		R659	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q614	8-729-029-56	TRANSISTOR DTA144ESA		R660	1-249-429-11	CARBON 10K 5% 1/4W	
Q615	8-729-200-21	TRANSISTOR 2SC2500-B		R661	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q616	8-729-030-03	TRANSISTOR DTC144ESA-TP		R662	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q617	8-729-029-56	TRANSISTOR DTA144ESA		R663	1-249-429-11	CARBON 10K 5% 1/4W	
< RELAY >				R664	1-249-429-11	CARBON 10K 5% 1/4W	
< RELAY >				R665	1-249-425-11	CARBON 4.7K 5% 1/4W	
< RELAY >				RY601	$\Delta$ 1-515-720-31	RELAY	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< THERMISTOR >				Q706	8-729-326-11	TRANSISTOR 2SC2611	
TBP601	1-809-827-11	THERMISTOR POSITIVE		Q707	8-729-200-17	TRANSISTOR 2SA1091-0	
< VARISTOR >				Q708	8-729-200-17	TRANSISTOR 2SA1091-0	
VDR601	1-810-977-11	VARISTOR		Q709	8-729-200-17	TRANSISTOR 2SA1091-0	
*****				Q710	8-729-119-78	TRANSISTOR 2SC2785-HFE	
*A-1638-071-A C BOARD, COMPLETE				Q711	8-729-119-78	TRANSISTOR 2SC2785-HFE	
*****				Q712	8-729-119-78	TRANSISTOR 2SC2785-HFE	
4-382-854-11 SCREW (M3X10), P, SW (+)				Q714	8-729-255-12	TRANSISTOR 2SC2551-0	
< CAPACITOR >				Q715	8-729-173-38	TRANSISTOR 2SA733-K	
C701	1-162-114-00	CERAMIC	0.0047MF 2KV	< RESISTOR >			
C703	1-107-651-11	ELECT	4.7MF 20% 250V	R701	1-202-846-00	SOLID	470K 20% 1/2W
C711	1-101-880-00	CERAMIC	47PF 5% 50V	R702	1-202-838-00	SOLID	100K 20% 1/2W
C712	1-102-978-00	CERAMIC	220PF 5% 50V	R703	1-202-838-00	SOLID	100K 20% 1/2W
C713	1-102-980-00	CERAMIC	270PF 5% 50V	R705	1-249-377-11	CARBON	0.47 5% 1/4W F
C714	1-102-980-00	CERAMIC	270PF 5% 50V	R706	1-249-377-11	CARBON	0.47 5% 1/4W F
C716	1-128-526-11	ELECT	100MF 20% 16V	R707	1-249-416-11	CARBON	820 5% 1/4W
C720	1-162-116-00	CERAMIC	680PF 10% 2KV	R708	1-249-416-11	CARBON	820 5% 1/4W
< CONNECTOR >				R709	1-249-416-11	CARBON	820 5% 1/4W
CN0003	1-695-915-11	TAB (CONTACT)		R710	1-215-922-11	METAL OXIDE	6.8K 5% 3W F
CN0004	1-695-915-11	TAB (CONTACT)		R711	1-202-549-00	SOLID	100 20% 1/2W
CN0411	*1-568-882-11	PIN, CONNECTOR 7P		R712	1-215-922-11	METAL OXIDE	6.8K 5% 3W F
CN0421	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P		R713	1-202-549-00	SOLID	100 20% 1/2W
< DIODE >				R714	1-215-922-11	METAL OXIDE	6.8K 5% 3W F
D701	8-719-991-33	DIODE 1SS133T-77		R715	1-202-549-00	SOLID	100 20% 1/2W
D702	8-719-991-33	DIODE 1SS133T-77		R716	1-249-405-11	CARBON	100 5% 1/4W F
D703	8-719-991-33	DIODE 1SS133T-77		R717	1-249-405-11	CARBON	100 5% 1/4W F
D704	8-719-991-33	DIODE 1SS133T-77		R718	1-249-405-11	CARBON	100 5% 1/4W F
D705	8-719-991-33	DIODE 1SS133T-77		R725	1-249-421-11	CARBON	2.2K 5% 1/4W
D706	8-719-991-33	DIODE 1SS133T-77		R726	1-249-421-11	CARBON	2.2K 5% 1/4W
D707	8-719-991-33	DIODE 1SS133T-77		R727	1-249-421-11	CARBON	2.2K 5% 1/4W
D708	8-719-991-33	DIODE 1SS133T-77		R728	1-249-407-11	CARBON	150 5% 1/4W
D709	8-719-991-33	DIODE 1SS133T-77		R729	1-249-407-11	CARBON	150 5% 1/4W
D714	8-719-109-97	DIODE RD6.8ES-B2		R730	1-249-407-11	CARBON	150 5% 1/4W
D715	8-719-018-82	DIODE RGP02-20EL-6394		R731	1-247-791-91	CARBON	22 5% 1/4W
< CRT SOCKET >				R732	1-247-791-91	CARBON	22 5% 1/4W
J701	1-526-990-14	SOCKET, CRT		R733	1-247-791-91	CARBON	22 5% 1/4W
< COIL >				R734	1-202-549-00	SOLID	100 20% 1/2W
L701	1-408-413-00	INDUCTOR	22UH	R738	1-249-401-11	CARBON	47 5% 1/4W
L702	1-408-413-00	INDUCTOR	22UH	R739	1-249-401-11	CARBON	47 5% 1/4W
L703	1-408-409-00	INDUCTOR	10UH	R740	1-249-401-11	CARBON	47 5% 1/4W
L704	1-408-413-00	INDUCTOR	22UH	R743	1-249-435-11	CARBON	33K 5% 1/4W
L705	1-408-409-00	INDUCTOR	10UH	R747	1-216-489-11	METAL OXIDE	27K 5% 3W F
L706	1-408-413-00	INDUCTOR	22UH	R749	1-216-489-11	METAL OXIDE	27K 5% 3W F
L707	1-408-409-00	INDUCTOR	10UH	R751	1-216-489-11	METAL OXIDE	27K 5% 3W F
< TRANSISTOR >				R753	1-249-429-11	CARBON	10K 5% 1/4W
Q701	8-729-326-11	TRANSISTOR 2SC2611		R767	1-249-437-11	CARBON	47K 5% 1/4W
Q702	8-729-326-11	TRANSISTOR 2SC2611		R768	1-249-417-11	CARBON	1K 5% 1/4W
Q703	8-729-326-11	TRANSISTOR 2SC2611		< VARIABLE RESISTOR >			
Q704	8-729-326-11	TRANSISTOR 2SC2611		RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
Q705	8-729-326-11	TRANSISTOR 2SC2611		RV702	1-241-714-11	RES, ADJ, METAL FILM 110M	
*****				*****			
*A-1640-183-A D BOARD, COMPLETE				*****			
*****				*A-1640-183-A D BOARD, COMPLETE			
*****				*****			
4-200-399-01 SPACER, IC				*****			
4-382-854-11 SCREW (M3X10), P, SW (+)				*****			

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< CAPACITOR >				< IC >			
C801	1-123-024-21	ELECT 33MF	160V	FB803	1-410-396-51	FERRITE BEAD INDUCTOR 0.45UH	
C802	1-136-207-11	FILM 0.047MF	10% 250V	< IC >			
C804	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	IC801	8-759-103-93	IC UPC393C	
C805	1-102-030-00	CERAMIC 330PF	10% 500V	< COIL >			
C808	1-162-116-00	CERAMIC 680PF	10% 2KV	L801	1-459-123-00	COIL, DUST CORE (PAC)	
C809	1-162-116-00	CERAMIC 680PF	10% 2KV	L802	1-459-123-00	COIL, DUST CORE (PAC)	
C810	1-106-367-00	MYLAR 0.01MF	10% 400V	L803	1-459-123-00	COIL, DUST CORE (PAC)	
C811	1-109-948-11	FILM 0.0015MF	3% 1.8KV	L811	1-459-104-00	COIL, WITH CORE	
C812	1-129-722-00	FILM 0.047MF	5% 630V	L813	1-459-104-00	COIL, WITH CORE	
C813	1-109-961-11	FILM 0.75MF	5% 400V	L814	1-422-613-11	COIL, AIR CORE	
C814	1-129-702-00	FILM 0.001MF	10% 400V	L815	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
C816	1-110-969-11	FILM 0.89MF	5% 400V	L816	1-408-947-00	INDUCTOR 2.2MMH	
C819	1-137-104-91	FILM 0.033MF	10% 250V	< TRANSISTOR >			
C822	1-126-967-11	ELECT 47MF	20% 50V	Q801	8-729-119-80	TRANSISTOR 2SC2688-LK	
C823	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q802	8-729-821-07	TRANSISTOR 2SC3997CA	
C824	1-162-117-00	CERAMIC 100PF	10% 500V	Q803	8-729-931-45	TRANSISTOR IRF614	
C825	1-126-964-91	ELECT 10MF	20% 50V	< RESISTOR >			
C827	1-102-228-00	CERAMIC 470PF	10% 500V	JR502	1-216-295-91	METAL GLAZE 0 5% 1/10W	
C835	1-107-655-11	ELECT 47MF	20% 250V	JR503	1-216-295-91	METAL GLAZE 0 5% 1/10W	
C836	1-102-228-00	CERAMIC 470PF	10% 500V	JR504	1-216-295-91	METAL GLAZE 0 5% 1/10W	
C837	1-102-228-00	CERAMIC 470PF	10% 500V	R802	1-215-916-00	METAL OXIDE 680 5% 3W F	
C838	1-102-228-00	CERAMIC 470PF	10% 500V	R803	1-215-916-00	METAL OXIDE 680 5% 3W F	
C839	1-126-941-11	ELECT 470MF	20% 25V	R804	1-215-916-00	METAL OXIDE 680 5% 3W F	
C840	1-126-941-11	ELECT 470MF	20% 25V	R805	1-215-923-00	METAL OXIDE 10K 5% 3W F	
C841	1-106-375-12	MYLAR 0.022MF	10% 250V	R806	1-216-037-00	METAL GLAZE 330 5% 1/10W	
C842	1-136-559-11	MYLAR 0.0047MF	10% 400V	R807	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
C863	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	R808	1-216-385-11	METAL OXIDE 0.47 5% 3W F	
C873	1-162-115-00	CERAMIC 330PF	10% 2KV	R809	1-215-880-00	METAL OXIDE 10 5% 2W F	
C874	1-164-645-11	CERAMIC 1000PF	10% 500V	R810	1-215-914-11	METAL OXIDE 330 5% 3W F	
C875	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	R811	1-216-434-11	METAL OXIDE 1.8K 5% 1W F	
C892	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	R817	1-202-972-61	FUSIBLE 1 5% 1/4W F	
< CONNECTOR >				R818	1-249-377-11	CARBON 0.47 5% 1/4W F	
CN0009	1-568-878-51	PIN, CONNECTOR 3P		R819	1-249-377-11	CARBON 0.47 5% 1/4W F	
CN0501	*1-564-516-11	PLUG, CONNECTOR 13P		R820	1-214-907-00	METAL 56K 1% 1/2W	
CN0503	1-764-607-11	CONNECTOR, BOARD TO BOARD 8P		R821	1-249-428-11	CARBON 8.2K 5% 1/4W	
CN0504	1-764-607-11	CONNECTOR, BOARD TO BOARD 8P		R823	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
CN0505	1-764-607-11	CONNECTOR, BOARD TO BOARD 8P		R835	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
CN0521	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P		R837	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
DY1	*1-580-798-11	CONNECTOR PIN (DY) 6P		R842	1-249-887-11	CARBON 33 5% 1/4W F	
< DIODE >				R843	1-202-822-00	SOLID 2.2K 20% 1/2W	
D802	8-719-979-99	DIODE ERD08M-15		R844	1-249-424-11	CARBON 3.9K 5% 1/4W	
D803	8-719-043-14	DIODE ESAD39M-06C		R845	1-216-099-00	METAL GLAZE 120K 5% 1/10W	
D804	8-719-971-20	DIODE ERC38-06		R850	1-249-389-11	CARBON 4.7 5% 1/4W F	
D805	8-719-908-03	DIODE GP08D		R851	1-216-374-00	METAL OXIDE 2.7 5% 2W F	
D806	8-719-908-03	DIODE GP08D		R852	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
D811	8-719-302-43	DIODE EL1Z		R853	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
D812	8-719-510-26	DIODE D1NL20		R854	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
D813	8-719-510-26	DIODE D1NL20		R855	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
D815	8-719-110-13	DIODE RD9.1ESB2		R856	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
D872	8-719-914-43	DIODE DAN202K		R857	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
D874	8-719-914-42	DIODE DA204K		R858	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
< FERRITE BEAD >				R859	1-202-822-00	SOLID 2.2K 20% 1/2W	
FB801	1-410-396-51	FERRITE BEAD INDUCTOR 0.45UH		R894	1-216-295-91	METAL GLAZE 0 5% 1/10W	
FB802	1-410-396-51	FERRITE BEAD INDUCTOR 0.45UH		R895	1-215-866-11	METAL OXIDE 330 5% 1W F	
				R896	1-216-295-91	METAL GLAZE 0 5% 1/10W	

The components identified by shading and marked **A** are critical for safety.  
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

**D** **VM** **H1**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R897	1-216-295-91	METAL GLAZE 270K 5%	1/10W	Q1840	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R898	1-216-115-00	METAL GLAZE 560K 5%	1/10W	Q1841	8-729-017-06	TRANSISTOR 2SC4793	
R899	1-216-117-00	METAL GLAZE 680K 5%	1/10W				
< TRANSFORMER >				< RESISTOR >			
T801	1-427-762-11	TRANSFORMER, FERRITE (HDT)		R1701	1-249-417-11	CARBON 1K 5%	1/4W
T803	1-426-897-11	TRANSFORMER, FERRITE (PMT)		R1702	1-249-417-11	CARBON 1K 5%	1/4W
T804	1-429-287-11	COIL, HORIZONTAL LINEARITY		R1703	1-249-421-11	CARBON 2.2K 5%	1/4W
<del>T805</del>	<del>1-451-187-11</del>	<del>TRANSFORMER ASSY, FLYBACK (NX-2661/U2B)</del>		R1704	1-249-415-11	CARBON 680 5%	1/4W
T806	1-413-059-00	TRANSFORMER, FERRITE (DFT)		R1705	1-247-791-91	CARBON 22 5%	1/4W
*****				R1706	1-247-791-91	CARBON 22 5%	1/4W
*A-1644-065-A VM BOARD, COMPLETE				R1707	1-247-807-31	CARBON 100 5%	1/4W
*****				R1708	1-249-410-11	CARBON 270 5%	1/4W
*4-368-683-21 SPRING, TRANSISTOR				R1709	1-249-401-11	CARBON 47 5%	1/4W
4-382-854-11 SCREW (M3X10), P, SW (+)				R1710	1-249-401-11	CARBON 47 5%	1/4W
< CAPACITOR >				R1711	1-249-429-11	CARBON 10K 5%	1/4W
C1701	1-126-933-11	ELECT 100MF 20%	16V	R1712	1-260-311-11	CARBON 39 5%	1/2W
C1702	1-102-074-00	CERAMIC 0.001MF 10%	50V	R1713	1-249-384-11	CARBON 1.8 5%	1/4W F
C1703	1-126-933-11	ELECT 100MF 20%	16V	R1714	1-249-414-11	CARBON 560 5%	1/4W F
C1704	1-126-933-11	ELECT 100MF 20%	16V	R1715	1-249-432-11	CARBON 18K 5%	1/4W
C1705	1-107-638-11	ELECT 33MF 20%	160V	R1716	1-249-417-11	CARBON 1K 5%	1/4W F
C1706	1-104-999-11	FILM 0.1MF 5%	200V	R1717	1-216-476-11	METAL OXIDE 180 5%	3W F
C1707	1-104-989-91	FILM 0.0022MF 5%	200V	R1718	1-249-432-11	CARBON 18K 5%	1/4W
C1708	1-137-364-11	FILM 0.001MF 5%	50V	R1719	1-249-384-11	CARBON 1.8 5%	1/4W F
C1709	1-137-364-11	FILM 0.001MF 5%	50V	R1720	1-249-400-11	CARBON 39 5%	1/4W F
C1720	1-107-667-11	ELECT 2.2MF 20%	160V	R1721	1-249-414-11	CARBON 560 5%	1/4W
C1721	1-104-989-91	FILM 0.0022MF 5%	200V	R1722	1-249-401-11	CARBON 47 5%	1/4W
C1722	1-128-581-11	ELECT 4.7MF 20%	100V	R1723	1-249-426-11	CARBON 5.6K 5%	1/4W
C1723	1-161-830-00	CERAMIC 0.0047MF 500V		R1841	1-247-871-91	CARBON 47K 5%	1/4W
C1841	1-130-481-00	FILM 0.0068MF 5%	50V	R1842	1-247-764-11	CARBON 10K 5%	1/2W
C1844	1-106-367-00	MYLAR 0.01MF 10%	400V	R1843	1-249-421-11	CARBON 2.2K 5%	1/4W
C1845	1-106-220-00	MYLAR 0.1MF 10%	100V	R1844	1-249-421-11	CARBON 2.2K 5%	1/4W
< CONNECTOR >				R1847	1-249-887-11	CARBON 33 5%	1/4W F
CN1015	*1-568-881-51	PIN, CONNECTOR 6P		R1848	1-215-875-11	METAL OXIDE 10K 5%	1W F
< DIODE >				R1849	1-247-764-11	CARBON 10K 5%	1/2W
D1701	8-719-991-33	DIODE 1SS133T-77		*****			
D1702	8-719-110-88	DIODE RD39ESB2		*A-1646-101-A H1 BOARD, COMPLETE			
D1703	8-719-110-88	DIODE RD39ESB2		*****			
D1840	8-719-302-43	DIODE EL1Z		1-568-678-11	TERMINAL BLOCK, S 3P		
D1841	8-719-991-33	DIODE 1SS133T-77		1-764-606-11	JACK		
< COIL >				< CAPACITOR >			
L1701	1-408-603-41	INDUCTOR 10UH		C081	1-102-973-00	CERAMIC 100PF 5%	50V
L1702	1-408-597-41	INDUCTOR 3.3UH		C082	1-102-973-00	CERAMIC 100PF 5%	50V
L1703	1-408-603-41	INDUCTOR 10UH		C083	1-101-005-00	CERAMIC 0.022MF 50V	
L1841	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE		C087	1-101-005-00	CERAMIC 0.022MF 50V	
L1843	1-459-104-00	COIL, WITH CORE		< CONNECTOR >			
< TRANSISTOR >				CN1113	*1-568-879-11	PIN, CONNECTOR 4P	
Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE		CN1123	*1-564-512-11	PLUG, CONNECTOR 9P	
Q1702	8-729-119-78	TRANSISTOR 2SC2785-HFE		< COIL >			
Q1703	8-729-017-05	TRANSISTOR 2SA1837		L081	1-408-409-00	INDUCTOR 10UH	
Q1704	8-729-119-78	TRANSISTOR 2SC2785-HFE		L082	1-408-409-00	INDUCTOR 10UH	
Q1705	8-729-173-38	TRANSISTOR 2SA733-K		< RESISTOR >			
Q1706	8-729-017-06	TRANSISTOR 2SC4793		R081	1-249-429-11	CARBON 10K 5%	1/4W
Q1707	8-729-255-12	TRANSISTOR 2SC2551-0		R082	1-249-425-11	CARBON 4.7K 5%	1/4W
				R083	1-249-421-11	CARBON 2.2K 5%	1/4W
				R084	1-249-419-11	CARBON 1.5K 5%	1/4W

H1	H2	J
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REF.NO.	PART NO.	DESCRIPTION	REMARK
R085	1-249-419-11	CARBON 1.5K 5% 1/4W	
< SWITCH >			
S081	1-571-532-21	SWITCH, TACTIL	
S082	1-571-532-21	SWITCH, TACTIL	
S083	1-571-532-21	SWITCH, TACTIL	
*****			
	*A-1646-100-A	H2 BOARD, COMPLETE	
*****			
	*4-374-987-01	GUIDE, LIGHT	
	4-381-686-01	BRACKET (B), LIGHT GUIDE	
< CONNECTOR >			
CN1214	*1-564-511-11	PLUG, CONNECTOR 8P	
< DIODE >			
D092	8-719-948-31	DIODE LD-201VR	
	*4-201-076-01	HOLDER, LED ; D092	
D093	8-719-948-31	DIODE LD-201VR	
	*4-201-076-01	HOLDER, LED ; D093	
D094	8-719-948-31	DIODE LD-201VR	
	*4-201-076-01	HOLDER, LED ; D094	
< IC >			
IC091	8-741-810-11	IC SBX1810-11	
< RESISTOR >			
R091	1-249-413-11	CARBON 470 5% 1/4W	
*****			
	*A-1651-074-A	J BOARD, COMPLETE	
*****			
< CAPACITOR >			
C270	1-163-063-00	CERAMIC CHIP 0.022MF	50V
C271	1-163-063-00	CERAMIC CHIP 0.022MF	50V
C273	1-101-003-00	CERAMIC 0.0047MF	50V
C274	1-101-003-00	CERAMIC 0.0047MF	50V
C275	1-101-005-00	CERAMIC 0.022MF	50V
C290	1-101-005-00	CERAMIC 0.022MF	50V
C295	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C296	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C401	1-164-005-11	CERAMIC CHIP 0.47MF	16V
C402	1-126-933-11	ELECT 100MF	20% 16V
C403	1-164-005-11	CERAMIC CHIP 0.47MF	16V
C410	1-126-966-11	ELECT 33MF	20% 50V
C421	1-126-967-11	ELECT 47MF	20% 50V
C422	1-126-967-11	ELECT 47MF	20% 50V
C423	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C424	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C425	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C426	1-126-967-11	ELECT 47MF	20% 16V
C427	1-164-346-11	CERAMIC CHIP 1MF	16V
C428	1-164-346-11	CERAMIC CHIP 1MF	16V
C429	1-126-940-11	ELECT 330MF	20% 16V
C901	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C902	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C904	1-163-129-00	CERAMIC CHIP 330PF	5% 50V


REF.NO.	PART NO.	DESCRIPTION	REMARK
C905	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C906	1-101-004-00	CERAMIC 0.01MF	50V
C907	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C908	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C909	1-101-004-00	CERAMIC 0.01MF	50V
C910	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C911	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C912	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C913	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C914	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C915	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C916	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C917	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C918	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C919	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C920	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C921	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C922	1-126-967-11	ELECT 47MF	20% 16V
C923	1-164-346-11	CERAMIC CHIP 1MF	16V
C924	1-126-967-11	ELECT 47MF	20% 16V
C925	1-126-967-11	ELECT 47MF	20% 16V
C926	1-164-346-11	CERAMIC CHIP 1MF	16V
C928	1-126-967-11	ELECT 47MF	20% 16V
C929	1-126-967-11	ELECT 47MF	20% 16V
C930	1-126-967-11	ELECT 47MF	20% 16V
C931	1-164-346-11	CERAMIC CHIP 1MF	16V
C932	1-164-346-11	CERAMIC CHIP 1MF	16V
C933	1-126-967-11	ELECT 47MF	20% 16V
C935	1-126-967-11	ELECT 47MF	20% 16V
C936	1-164-346-11	CERAMIC CHIP 1MF	16V
C937	1-164-346-11	CERAMIC CHIP 1MF	16V
C938	1-126-967-11	ELECT 47MF	20% 16V
< CONNECTOR >			
CN0806	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
CN0807	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P	
CN0823	1-564-524-11	PLUG, CONNECTOR 9P	
CN0824	*1-564-518-11	PLUG, CONNECTOR 3P	
CN0825	*1-564-518-11	PLUG, CONNECTOR 3P	
< DIODE >			
D401	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D403	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D405	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D406	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D407	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D901	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D902	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D903	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D904	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D905	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D906	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D907	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D908	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D909	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D910	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D911	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D913	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D914	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D915	8-719-923-60	DIODE MTZJ-T-77-9.1A	



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D916	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR408	1-216-295-91	METAL GLAZE 0 5%	1/10W
D917	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR901	1-216-295-91	METAL GLAZE 0 5%	1/10W
D919	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR905	1-216-296-91	METAL GLAZE 0 5%	1/8W
D920	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR907	1-216-296-91	METAL GLAZE 0 5%	1/8W
D921	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR908	1-216-296-91	METAL GLAZE 0 5%	1/8W
D922	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR909	1-216-295-91	METAL GLAZE 0 5%	1/10W
D923	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR910	1-216-296-91	METAL GLAZE 0 5%	1/8W
D924	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR911	1-216-295-91	METAL GLAZE 0 5%	1/8W
D925	8-719-923-60	DIODE MTZJ-T-77-9.1A		R283	1-216-073-00	METAL GLAZE 10K 5%	1/10W
D926	8-719-923-60	DIODE MTZJ-T-77-9.1A		R284	1-216-073-00	METAL GLAZE 10K 5%	1/10W
D927	8-719-923-60	DIODE MTZJ-T-77-9.1A		R285	1-216-073-00	METAL GLAZE 10K 5%	1/10W
D928	8-719-923-60	DIODE MTZJ-T-77-9.1A		R286	1-216-073-00	METAL GLAZE 10K 5%	1/10W
D930	8-719-923-60	DIODE MTZJ-T-77-9.1A		R291	1-216-190-00	METAL GLAZE 470 5%	1/8W
D931	8-719-923-60	DIODE MTZJ-T-77-9.1A		R292	1-216-190-00	METAL GLAZE 470 5%	1/8W
D932	8-719-923-60	DIODE MTZJ-T-77-9.1A		R293	1-216-216-00	METAL GLAZE 5.6K 5%	1/8W
< IC >				R294	1-216-216-00	METAL GLAZE 5.6K 5%	1/8W
IC401	8-752-068-46	IC CXA1855S		R401	1-216-158-00	METAL GLAZE 22 5%	1/8W
IC402	8-759-073-00	IC TEA2114		R403	1-216-025-91	METAL GLAZE 100 5%	1/10W
< SOCKET >				R404	1-216-158-00	METAL GLAZE 22 5%	1/8W
J291	1-537-979-11	TERMINAL BOARD		R405	1-216-025-91	METAL GLAZE 100 5%	1/10W
J292	1-537-978-11	TERMINAL BOARD		R406	1-216-158-00	METAL GLAZE 22 5%	1/8W
J901	1-695-296-11	TERMINAL BLOCK, S		R407	1-216-025-91	METAL GLAZE 100 5%	1/10W
J903	1-561-534-41	SOCKET, PIN 21P		R410	1-216-174-00	METAL GLAZE 100 5%	1/8W
J904	1-695-296-11	TERMINAL BLOCK, S		R411	1-216-174-00	METAL GLAZE 100 5%	1/8W
J905	1-695-293-11	SOCKET 21P		R412	1-216-022-00	METAL GLAZE 75 5%	1/10W
J906	1-695-296-11	TERMINAL BLOCK, S		R413	1-216-022-00	METAL GLAZE 75 5%	1/10W
J907	1-695-293-11	SOCKET 21P		R414	1-216-022-00	METAL GLAZE 75 5%	1/10W
< COIL >				R416	1-216-113-00	METAL GLAZE 470K 5%	1/10W
L284	1-402-711-11	INDUCTOR, WIDEBAND		R417	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
L291	1-402-711-11	INDUCTOR, WIDEBAND		R419	1-216-113-00	METAL GLAZE 470K 5%	1/10W
L292	1-402-711-11	INDUCTOR, WIDEBAND		R420	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
L294	1-402-711-11	INDUCTOR, WIDEBAND		R421	1-216-171-00	METAL GLAZE 75 5%	1/8W
L295	1-402-711-11	INDUCTOR, WIDEBAND		R423	1-216-015-00	METAL GLAZE 39 5%	1/10W
L296	1-402-711-11	INDUCTOR, WIDEBAND		R424	1-216-174-00	METAL GLAZE 100 5%	1/8W
< TRANSISTOR >				R425	1-216-174-00	METAL GLAZE 100 5%	1/8W
Q401	8-729-920-74	TRANSISTOR 2SC2412K-QR		R428	1-249-393-11	CARBON 10 5%	1/8W F
Q402	8-729-920-74	TRANSISTOR 2SC2412K-QR		R429	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
Q403	8-729-920-74	TRANSISTOR 2SC2412K-QR		R430	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
Q404	8-729-920-74	TRANSISTOR 2SC2412K-QR		R431	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
< RESISTOR >				R432	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
JR285	1-216-295-91	METAL GLAZE 0 5%	1/10W	R433	1-216-296-91	METAL GLAZE 0 5%	1/8W
JR288	1-216-296-91	METAL GLAZE 0 5%	1/8W	R434	1-216-049-91	METAL GLAZE 1K 5%	1/10W
JR291	1-216-295-91	METAL GLAZE 0 5%	1/10W	R435	1-216-049-91	METAL GLAZE 1K 5%	1/10W
JR292	1-216-295-91	METAL GLAZE 0 5%	1/10W	R436	1-216-049-91	METAL GLAZE 1K 5%	1/10W
JR294	1-216-295-91	METAL GLAZE 0 5%	1/10W	R437	1-216-049-91	METAL GLAZE 1K 5%	1/10W
JR296	1-216-295-91	METAL GLAZE 0 5%	1/10W	R438	1-216-296-91	METAL GLAZE 0 5%	1/8W
JR297	1-216-296-91	METAL GLAZE 0 5%	1/8W	R439	1-216-296-91	METAL GLAZE 0 5%	1/8W
JR298	1-216-296-91	METAL GLAZE 0 5%	1/8W	R440	1-216-296-91	METAL GLAZE 0 5%	1/8W
JR401	1-216-295-91	METAL GLAZE 0 5%	1/10W	R901	1-216-039-00	METAL GLAZE 390 5%	1/10W
JR402	1-216-295-91	METAL GLAZE 0 5%	1/10W	R902	1-216-039-00	METAL GLAZE 390 5%	1/10W
JR403	1-216-295-91	METAL GLAZE 0 5%	1/10W	R903	1-216-113-00	METAL GLAZE 470K 5%	1/10W
JR404	1-216-295-91	METAL GLAZE 0 5%	1/10W	R904	1-216-113-00	METAL GLAZE 470K 5%	1/10W
JR405	1-216-295-91	METAL GLAZE 0 5%	1/10W	R905	1-216-039-00	METAL GLAZE 390 5%	1/10W
JR406	1-216-295-91	METAL GLAZE 0 5%	1/10W	R906	1-216-039-00	METAL GLAZE 390 5%	1/10W
JR407	1-216-295-91	METAL GLAZE 0 5%	1/10W	R907	1-216-171-00	METAL GLAZE 75 5%	1/8W
				R908	1-216-171-00	METAL GLAZE 75 5%	1/8W
				R909	1-216-113-00	METAL GLAZE 470K 5%	1/10W
				R910	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
				R911	1-216-022-00	METAL GLAZE 75 5%	1/10W
				R913	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W

## J

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R914	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W			MISCELLANEOUS	
R915	1-216-113-00	METAL GLAZE	470K 5% 1/10W			*****	
R916	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R917	1-216-171-00	METAL GLAZE	75 5% 1/8W				
R918	1-216-171-00	METAL GLAZE	75 5% 1/8W				
R919	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W				
R920	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W				
R921	1-216-022-00	METAL GLAZE	75 5% 1/10W				
R922	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R923	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R924	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R925	1-216-089-91	METAL GLAZE	47K 5% 1/10W				
R926	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R927	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R928	1-216-089-91	METAL GLAZE	47K 5% 1/10W				
R929	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W				
R930	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R931	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W				
R932	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R933	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R934	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W				
R935	1-216-022-00	METAL GLAZE	75 5% 1/10W				
R936	1-216-171-00	METAL GLAZE	75 5% 1/8W				
R937	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R938	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R939	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R940	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W				
R941	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R942	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R943	1-216-089-91	METAL GLAZE	47K 5% 1/10W				
R944	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R945	1-216-089-91	METAL GLAZE	47K 5% 1/10W				
R946	1-216-022-00	METAL GLAZE	75 5% 1/10W				
R948	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R949	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R950	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W				
R951	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W				
R952	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R953	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R954	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R955	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R956	1-216-089-91	METAL GLAZE	47K 5% 1/10W				
R957	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R958	1-216-089-91	METAL GLAZE	47K 5% 1/10W				
R959	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W				
R960	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W				
R961	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W				
R967	1-216-171-00	METAL GLAZE	75 5% 1/8W				
R968	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W				
R969	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W				
R970	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W				
R971	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W				
R972	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W				
R973	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W				
R974	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W				
R975	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R976	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W				
R977	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W				

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